

Northern California's Computer Magazine

Dec. 10, 1990 • #77

**FREE**

# MICROTIMES™

**The 1991**

# COMPUTER & SOFTWARE

**BUYERS GUIDE**

► **Products For PC, Mac, UNIX,  
Networks & More**

*Printers, Laptops, Multimedia, Communications*

► **The MicroTimes Directory of  
Southern California Computer  
Dealers & Resellers—Find  
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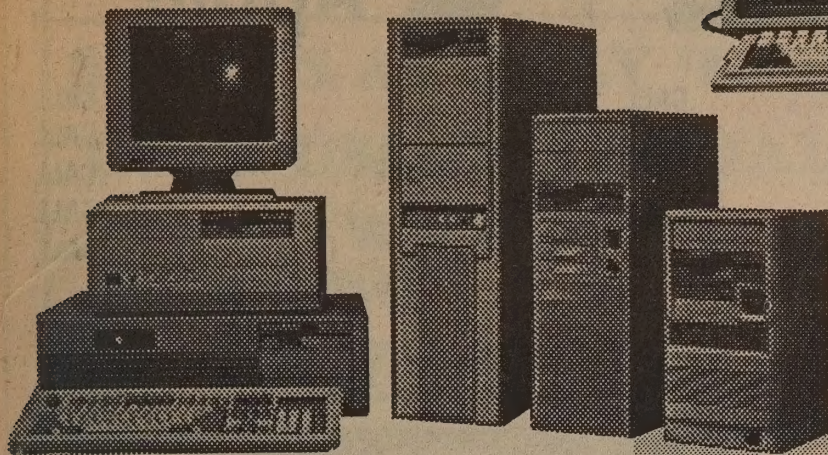
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\* Gas Plasma is 16 MHz and has no battery

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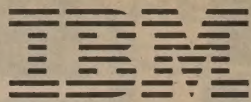
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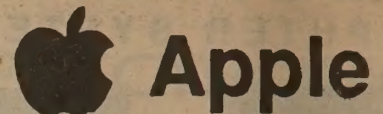
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 386-25 .....1195  
 386-33 .....1485  
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 386-25 MHz  
 386-33 MHz  
 486-25 MHz  
 486-33 MHz

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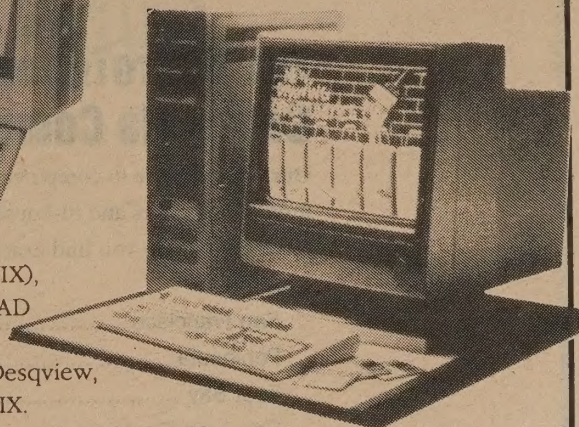
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**Compatible with:**

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**133 MHz**



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|-----------------|---------------------|
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| 128K Cache      | 1289x1024 TIGA      |
| 32 MB Memory    | 600 MB Drive        |
| Novell Software | E size Plotter      |
| Unix            | 32 Bit Network Card |
| AutoCAD         |                     |

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| 486<br>WORKSTATION                                                                                                                                                                              | 386<br>WORKSTATION                                                                    | 286 COMPUTER                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| STARTS AT <b>\$1899</b><br><b>OPTIONS:</b><br>Up To 32 MB Memory<br>Hard Drives: 300 MB<br>600 MB<br>1.2 Gigabyte<br>2.2 Gigabyte<br>Tape Back-Up 150 MB to 2 Gigabyte<br>14", 16" 20" Monitors | STARTS AT <b>\$899</b><br><b>OPTIONS:</b><br>VGA<br>HARD DRIVE 40<br>Up To 2 Gigabyte | 286 42 MB<br>VGA SYSTEM<br><b>\$950</b><br><br>BEST PRICES<br>ON 286 SYSTEMS |

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(3) CAD/CAM (6) OS/2  
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**3 LOCATIONS TO SERVE YOU**  
**Leasing & Financing Available**



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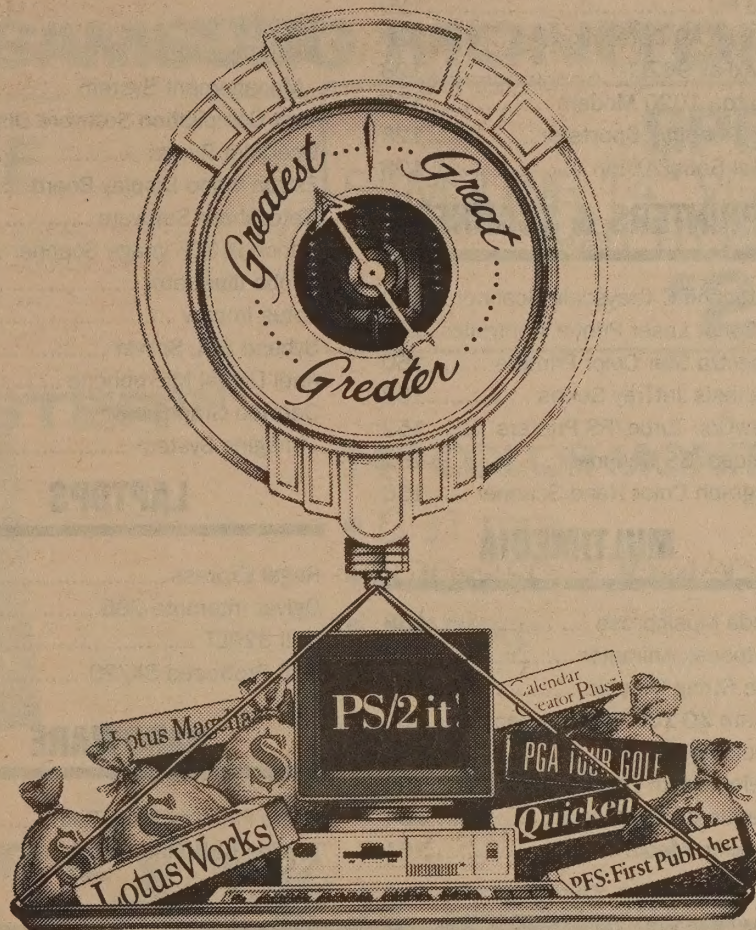
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In which our writers, never reluctant to speak their minds or to disagree with each other, hold forth on the best products of 1990.



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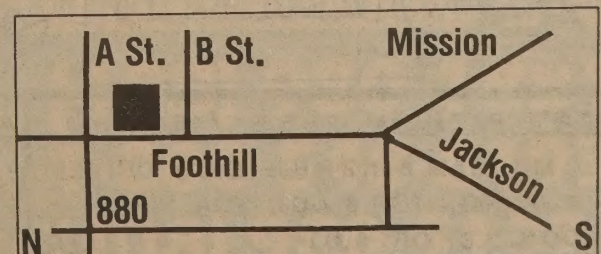
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## NETPlus™ Support

CERTIFIED NETWORK ENGINEERS





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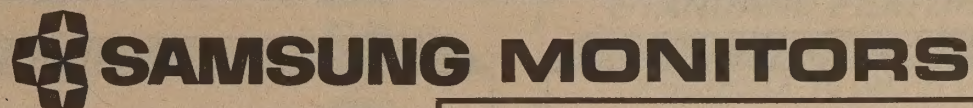
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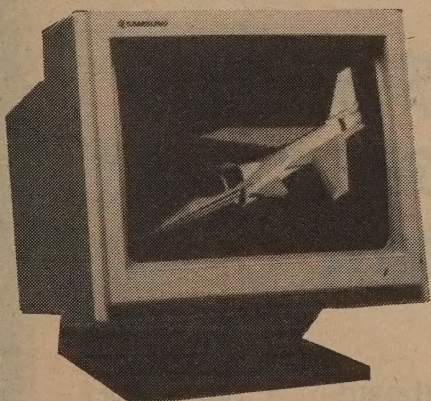


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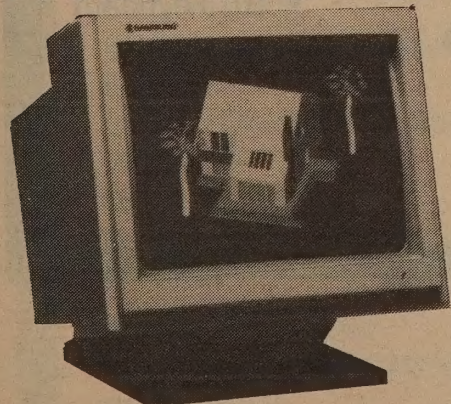
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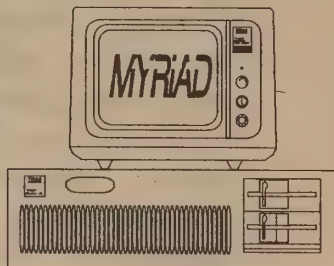
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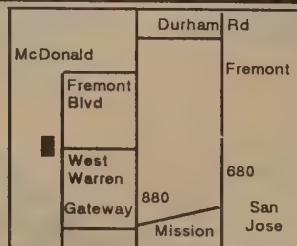
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Park & Halleck)

#### SACRAMENTO

11285 Sunrise Gold Cr., Suite A  
Rancho Cordova, CA 95742

(916) 852-1482

(Hwy 50 and Sunrise Blvd.)

#### CONCORD

1130A Burnett Ave.  
Concord, CA 94520

(415) 682-8934

(Concord Ave. East exit at 680,  
Corner of John Glenn Dr. & Burnett)

#### SOUTH BAY

976 Hanson Ct  
Milpitas, CA 95035

(408) 946-6991

(Milpitas Blvd & Jacklin)

#### MARIN

757 Lincoln Ave. (#30)  
San Rafael, CA 94901

(415) 453-8525

(C. San Rafael exit at Hwy 101)

#### SAN FRANCISCO

195 Commonwealth Ave.  
San Francisco 94118

(415) 668-9311

(Corner of Geary & Commonwealth)

### MOTHERBOARDS

12 MHZ XT Supports 1.2MB and  
1.44MB Floppy and EMS 4.0 .....\$75  
286 12MHz Motherboard (OK RAM) .....\$98  
286 16MHz Motherboard .....\$195  
386SX 16MHz Motherboard (OK RAM) ....\$340  
386 20MHz Motherboard .....\$550  
386 25MHz Motherboard .....\$590  
386/25MHz/64K Cache .....\$715  
386/33MHz .....\$818  
486/25 Motherboard .....\$1495  
Also call us for AML, Mylex & Micronix Motherboards

### ACCESSORIES

1.2MB Floppy Drive .....\$65  
IDE Controller with 2S, 1P .....\$44  
Mini Vertical Case with P/S .....\$85  
Mono Card .....\$22  
Mono Monitor .....\$75  
16 Bit VGA Card (1024x768) .....\$85  
VGA Monitor (Mono) .....\$150  
Hi-Res. VGA Monitor (1024x768) .....\$375  
I/O Card (AT) 2S, 1P .....\$20  
320 DPI Hi Rex Mouse .....\$25  
1.44 3.5" Floppy Drive .....\$65  
AT 20MB Hard Disk (40 ms) .....\$195  
40MB HD Disk .....\$250  
80MB Hard Disk (19ms) .....\$450  
100MB Hard Disk (25ms) .....\$500  
Prices subject to change without notice.

100% FINANCING AVAILABLE  
FOR YOUR HOME COMPUTERS.

**Domino**  
COMPUTER SELF SERVICE





# SANTRON

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**1-800-748-6355**

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Foster City, CA 94404

## SAN FRANCISCO OFFICE

1510 Noriega St.  
San Francisco, CA 94122  
(Between 22nd and 23rd)  
Hours: Mon-Sat 9-5p.m.

Tel: (415) 753-3559

Fax: (415) 681-2535

Prices subject to change without notice. Sale  
prices apply to stock on hand.

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NOVELL Authorized Dealer

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THE SANTA CRUZ OPERATION

SCO Interactive

**SANTRON 486 & 386**  
Faster than Everex Step  
As Fast As Northgate



**OUR 486 MAINSTREAM...**

*The Highest Performance at the Lowest cost !!!*

## FT-4370E

**486-33MHz EISA**  
**128K/256K Cache**

The Only EISA With on  
Board External Cache Memory  
• 4MB RAM Upgradable to 64MB

**\$ 3950**

### DISPLAY OPTIONS

- AMAZING Hi-Res VGA .....\$345
- SEIKO 1440 Mutisync .....\$525
- SONY 1304 Mutisync .....\$669
- NANA0 9070U16" Mutisync .....\$1075
- HITACHI 2085M 19" Mutisync .....\$1975

## FT-4370I

**486-33MHz ISA**  
**128K/256K Cache**

**Christmas Special**

**\$ 2995**

### 486 Standard Configuration

- 4MB RAM
- Dual Floppy Drive
- Full Tower CASE
- Ultrastor 32k Cache Controller
- 2 Serial 2Parallel Ports
- Focus 2001 Epansed Keyboard
- TVGA Wise VGA Card w/1MB RAM  
(256 Colors at 1024x768)

## FT-4270C

**486-25MHz ISA**  
**128K Cache**

At the Same Price as 386/33MHz;  
You Get Twice the Speed !!!

**\$ 2650**

### STORAGE OPTIONS

- Megtron 110MB; 16MS .....\$545
- Maxtor 4170E; 14ms 155MB H/Dms .....\$975
- Maxtor 4380E; 14ms 335MB H/D .....\$1395
- Fujitsu 180MB; .....\$795
- Fujitsu 365MB; 16ms .....\$1495
- Fujitsu 665MB; 16ms .....\$1995

**5 Years Warranty on  
FUJITSU H/D**



## MT-3370C

### 386-33MHz with 64K Cache

(Landmark=59)

- 4MB RAM
- Hi-Res VGA Monitor/Card (1024x768i; 0.28MB Dot Pitch)

- Microscience 120MB H/D; 25MS

**\$2275**

- Fujitsu 180MB ESDI/SCSI; 16MS

**\$2695**

- Fujitsu 365MB ESDI/SCSI; 16MS

**\$3195**



## MT-2580

### 386-25 MHz

(Landmark=34)

- 1MB RAM
- Hi-Res VGA Monitor/Card (1024x768i; 0.28mm Dot Pitch)

- NEC/Mitsubishi; H/D; 25MS

**\$1695**

- Microscience 120MB H/D; 25MS

**\$1875**

- Fujitsu 180MB DSDI/SCSI H/D; 16MS

Option: 64K Cache..... **\$2295**



## Santron Laptop 386/SX

- 13lbs. w/Carrying Bag
- VGA Screen w/External Port (800x600)
- 40 Meg Hard Drive
- 2S/1P Ports & Ext. Floppy Port

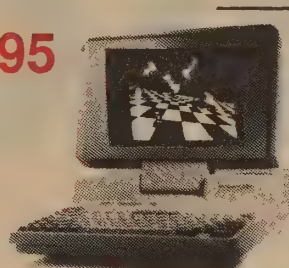
**\$2395**



## Santron Notebook 2100

- 7 lbs. w/Carrying Bag
- 286/12 MHz Microprocessor
- VGA Screen w/External Port (800x600)
- 20 Meg Hard Drive
- 2S/1P Ports & Ext. Floppy Port

**\$1895**



### ALL SANTRON 386/286 SYSTEMS INCLUDE:

TEAC 1.2MB or 1.44MB FDD; 2S/1P 1G; Math Coprocessor Socket; Focus 2001 Enhanced Keyboard; Real Time Clock & Calendar; System Documentation and Operation Manual; Dos 3.3 or 4.01 installed

### SPECIAL OFFER WITH SYSTEM PURCHASED:

• Microsoft Compatible Mouse and Microsoft Window \$105 • Logitech DEXXA Mouse W/Paint II and Pad \$35 • Built-in 300 Wattle Uninterruptible Power Supply(For Full Towercase only) \$250 • Auto-switch Box for Laser Printer Package \$95

## DT-1680

### 386-SX 16MHz

- 1MB RAM
- Standard VGA Color
- Video 7 VGA Card

- Western Digital 40MB H/D, 25MS

**\$1345**

- NEC/Mitsubishi; 66MB H/D, 25MS

**\$1445**

- Microscience, 120MB H/D, 25MS

**\$1625**



## SL-1210

### 286 12MHz

- 1MB RAM
- 14" Flat Screen Monochrome Monitor

- Western Digital 40MB H/D, 25MS

**\$875**

- NEC/Mitsubishi; 66MB H/D, 25MS

**\$955**

- Microscience, 120MB H/D, 25MS

**\$1125**



## Portable-VGA

### Gas Plasma VGA Portable

- 4MB RAM
- 640x480 Pixel Graphic Display
- 800x600 on Ext. VGA Display
- 1S/1P Built-in Ports
- 12:1 Contrast Ratio
- Carrying Bag Included

- 386/16SX Western Digital 40MS H/D

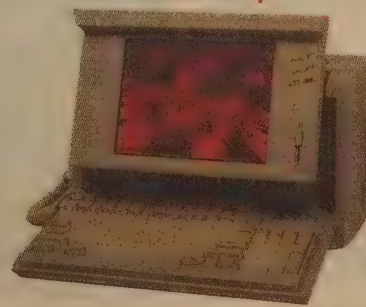
**\$2295**

- 386/25MHz, 64k Cache Microscience

120MB H/D..... **\$2695**

- 486/25MHz 128k Cache Microscience

120MB H/D..... **\$4295**



## MONITORS

|                      |        |
|----------------------|--------|
| Hitachi CM2085M 19"  | \$1975 |
| Hitachi 4319AS 19"   | 2045   |
| Nanao 9070S 16"      | 995    |
| Nanao 9070U 16"      | 1195   |
| NEC 3D 14"           | 615    |
| NEC 4D 16"           | 1250   |
| NEC 5D 19"           | 2250   |
| Mitsubishi 6605 16"  | 1450   |
| Mitsubishi 6905 19"  | 2195   |
| Qume Standard VGA    | 285    |
| Power II Hi-Res VGA  | 345    |
| Amazing Hi-Res VGA   | 345    |
| SEIKO 1440 Multisync | 525    |
| SEIKO 1450 Multisync | 645    |
| SONY 1320 VGA        | 495    |
| SONY 1304 Multisync  | 665    |

## PLOTTERS

|                       |        |
|-----------------------|--------|
| HP DXL, A-D 8 Pen     | \$3475 |
| HP EXL, A-E 8 Pen     | 4495   |
| CalCamp A-D 8 pen     | 3575   |
| CalCamp A-E 8 Pen     | 4575   |
| AMT Intelli-Plot, A-C | 1275   |
| Roland 300AR, A-D     | 3075   |
| Roland 400AR, A-E     | 3750   |

## DISPLAY CARDS

|                                     |      |
|-------------------------------------|------|
| Video 7 (16Bit, 256k)               | \$95 |
| TVGA Wise (16Bit, 256k)             |      |
| Upgradable to 1MB)                  | 145  |
| Orchid Prodesigner II (16 bit 256k) |      |
| Upgradable to 1MB)                  | 285  |
| Rendition II/16                     | 1025 |

## WARRANTY POLICY

- 1 YEAR PARTS & LABOR
- 15 DAYS MONEY BACK FOR INCOMPATIBILITY
- DAILY UPS SHIPPING
- UNLIMITED TELEPHONE TECHNICAL SUPPORT

## PRINTER

|                        |      |
|------------------------|------|
| PANASONIC KXP1180      | 179  |
| PANASONIC KXP1124      | 295  |
| CITIZEN GSX 200        | 175  |
| CITIZEN GX140          | 285  |
| PANASONIC Laser Series | CALL |
| HP Laser Series        | CALL |

## DIGITIZERS

|                       |       |
|-----------------------|-------|
| Summa Sketch 11 12X12 | \$345 |
| Summa Sketch 12x18    | 625   |
| Calcamp 12x12         | 325   |
| Kurta IS/ONE 12x12    | 345   |
| Kurta IS/ONE 12x17    | 595   |
| Kurta IS/THREE        | 3075  |



# The MicroTimes 1991 Northern California

# Computer Reseller Guide

If you've decided that your office really needs a LAN, or your all-in-one accounting package isn't meeting your growing business's needs, or you find yourself needing a computer-based music system, it's pretty frustrating to spend time calling around to generic computer stores who somehow seem to specialize in everything you don't need.

Well, no matter what your requirements, this annual Reseller Guide should prove a helpful tool in the year to come. Retailers, systems integrators, and other service providers told us where to find them and explained their areas of expertise. We, in turn, have listed the information by area, so you'll have an easy time finding the specialist you need without having to drive across town.

So whether it's Novell in Newark or Page-Maker in Palo Alto, you'll find it fast with this guide.

## DIRECTORY

|                        |     |
|------------------------|-----|
| EAST BAY .....         | 44  |
| MARIN & NORTH .....    | 96  |
| MONTEREY .....         | 100 |
| OUT OF STATE .....     | 254 |
| PENINSULA .....        | 24  |
| SACRAMENTO .....       | 98  |
| SAN FRANCISCO .....    | 16  |
| SAN JOSE/SANTA CRUZ .. | 82  |
| VALLEJO .....          | 100 |

## SAN FRANCISCO

### ABACUS, INC.

Store Manager: Shari Tresky  
543 Frederick St.  
San Francisco, CA 94117  
(415)759-9508

#### Areas of Specialty:

Macintosh training  
(all applications)  
Multimedia  
(Hypermedia, Desktop video)  
Database design  
and programming and custom animation

#### In-House Expert:

Deborah Starnes  
Eve Furchgott

Tom Winegar

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS, UNIX/XENIX

**Leading Brands Sold:** Macintosh, Compaq, AST

**Special Value Added:** Consulting, programming, networking, training, service and support.

### ASTRONOMICAL SOCIETY OF THE PACIFIC

390 Ashton Ave.  
San Francisco, CA 94112  
(415)337-1100

**Operating Systems Supported:** MS-DOS, Mac OS

**Leading Brands Sold:** Voyager, Superstar, Dance of the Planets

**Special Value Added:** We are a 102-year old scientific and educational organization. Our mail-order catalog features some outstanding astronomical software packages.



# GET INTO COMPUTERS

## WITH WHOM?

- Members of the original ITT XTRA systems design staff
- We are professional engineers and consultants

## WHY?

- Technical support from PC experts
- Pre-sales advice
- Post-sales support
- Quality sub-systems and components
- Fully tested systems
- One year warranty on parts and labor

## HOW EASY?

Just call. Our computer experts can help you choose the system or component that fits your needs and budget.

The following basic systems include:

- Mini AT case
- 200 watt power supply
- 101 enhanced keyboard
- 1.2MB floppy disk drive
- FD/HD (IDE) controller
- Two serial ports
- One parallel port

**THE AFFORDABLE PC** **\$ 389**  
286 12Mhz  
Includes: 512KB DRAM

**THE EXCEPTIONAL PC** **\$ 899**  
386SX 16Mhz  
Includes: 1MB DRAM & 40MB HD

**THE PROFESSIONAL PC** **\$1259**  
386 25Mhz  
Includes: 1MB DRAM & 40MB HD

**THE WORKSTATION** **\$1659**  
386 25Mhz Cache  
Includes: 1MB DRAM & 40MB HD

**THE SCREAMER** **CALL**  
486 25Mhz  
Includes 4MB DRAM & Tower Case

**SYSTEM OPTIONS:**

|                               |              |
|-------------------------------|--------------|
| Mono monitor and card         | <b>\$ 95</b> |
| Mono VGA and 16-bit VGA card  | <b>205</b>   |
| Color VGA and 16-bit VGA card | <b>395</b>   |

(Call for best prices on Custom Systems)

## WHAT ELSE?

**MONITORS:**

|                                        |              |
|----------------------------------------|--------------|
| 12" Monochrome (amber)                 | <b>\$ 72</b> |
| 14" Relisys VGA Gray Scale             | <b>135</b>   |
| 14" Relisys VGA color                  | <b>335</b>   |
| 14" Relisys Multiscan (800 x 600)      | <b>420</b>   |
| 14" Seiko CM1440 (1024 x 768 int.)     | <b>549</b>   |
| 14" Seiko CM1450 (1064 x 768 non-int.) | <b>679</b>   |
| 14" NEC Multisync 2A (800 x 600)       | <b>459</b>   |
| 14" NEC Multisync 3D (1024 x 768 int.) | <b>615</b>   |

**VIDEO BOARDS:**

|                           |              |
|---------------------------|--------------|
| Monochrome with PP        | <b>\$ 24</b> |
| VGA with OAK chipset      | <b>75</b>    |
| VGA Genoa/256K            | <b>129</b>   |
| VGA Genoa/512K            | <b>149</b>   |
| VGA ATI Wonder with mouse | <b>235</b>   |

**HARD DISK DRIVES:**

|                 |               |
|-----------------|---------------|
| IDE 40MB drive  | <b>\$ 275</b> |
| IDE 80MB drive  | <b>499</b>    |
| IDE 100MB drive | <b>535</b>    |
| RLL 60MB drive  | <b>295</b>    |

(Call for info on other drives)

**FLOPPY DISK DRIVES:**

|                  |              |
|------------------|--------------|
| TEAC 1.2MB 5.25" | <b>\$ 67</b> |
| TEAC 1.44MB 3.5" | <b>67</b>    |

**HD/FD CONTROLLERS:**

|                             |              |
|-----------------------------|--------------|
| IDE controller              | <b>\$ 29</b> |
| MFM 1:1 controller          | <b>69</b>    |
| RLL 1:1 (DTC 7287)          | <b>95</b>    |
| ESDI 1:1 (Adaptec 2322D)    | <b>185</b>   |
| ESDI 1:1 (Ultrastor 12F)    | <b>165</b>   |
| ESDI 1:1 (Ultrastor 12F/32) | <b>195</b>   |

**KEYBOARDS:**

|                 |              |
|-----------------|--------------|
| Mitsumi 101 key | <b>\$ 36</b> |
| OKI 101 key     | <b>45</b>    |

**INPUT DEVICES:**

|              |              |
|--------------|--------------|
| Serial mouse | <b>\$ 35</b> |
|--------------|--------------|

**SOFTWARE:**

|            |              |
|------------|--------------|
| MSDOS 3.3  | <b>\$ 65</b> |
| MSDOS 4.01 | <b>65</b>    |

**AT I/O CARDS:**

|                            |              |
|----------------------------|--------------|
| 2 serial/1 parallel/1 game | <b>\$ 22</b> |
|----------------------------|--------------|

**PRINTERS:**  
(Call for best prices)

**TAPE BACK-UP UNITS:**

|                                                       |               |
|-------------------------------------------------------|---------------|
| Colorado Memory Systems:<br>Jumbo internal tape drive | <b>\$ 265</b> |
| External kit for XT/AT                                | <b>120</b>    |

## WHERE?

312 South Abbott Avenue  
Milpitas, California 95035  
FAX 408/263-0676

# 408/263-1385



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- Prices/specifications are subject to change without notice.
- Prices reflect cash discount.



# INTO COMPUTERS



# AST<sup>®</sup>

## FREE

### w/C.N.E.

## OK, READ THIS

This is too good a deal to pass up.

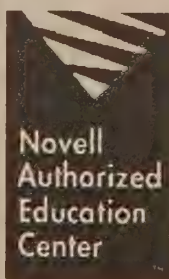
If you sign up now for the complete set of Novell Certified Netware Engineer courses from SERVTEL, we will give you an AST 386C computer; a suggested retail value of \$4395. **FREE.** Really!

You will be receiving the finest Novell Authorized Education from the best trainers in California ... and a first class PC to boot. (Pun intended)

Too good to be true? Just read the rules.

## The Rules

1. Call 800-447-3658. Sign up and pay in full for the complete CNE program at any SERVTEL education center.
2. Choose from our available courses and take advantage of our flexible scheduling. Rescheduling will be subject to our usual 48 hour notice.
3. You can not cancel any or all of the program and receive a refund.
4. The AST 386C is a brand new 20mhz full BUS computer (AST Model #300). It includes 1 megabyte of RAM, a 5.25" 1.2 meg drive, 101 keyboard, DOS, GW-Basic and Disk Cache software. Other components such as monitors, modems, and add-in cards may be purchased separately. This offer is limited to stock on hand.
5. Sorry, but this offer can not be combined with any other offers or discounts. SERVTEL reserves the right to discontinue this offer without further notice.



## SERVTEL ... Training that pays

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Biltmore Court, Suite 670  
520 South Grand Avenue  
Los Angeles, CA 90071

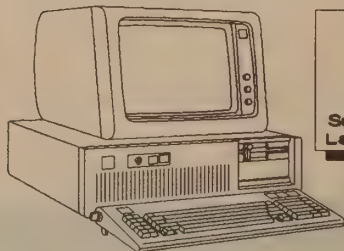
**Ventura County**  
770 Lawrence Drive  
Newbury Park, CA 91320

**San Francisco**  
100 Spear Street  
Suite 340  
San Francisco, CA 94105

**(800) 447-3658**

## Specializing in NOVELL<sup>®</sup> Networks

DOS Beginner & Intermediate Training Classes Available



**286-12**  
**\$645**

Supports 4Mb on M/B  
Landmark v2.00 - 15.6

**386SX**  
**\$895**

Supports 16Mb on M/B  
Landmark v2.00 - 20.8

**386-25**  
**\$1345**

Supports 32Mb on M/B  
Landmark v2.00 - 40.1

Complete System Includes:

1Mb RAM - 12" Mono Monitor/Card - 12Mb Floppy  
HD/FD Controller - 101 Keyboard - 1 Year Warranty

**Online Computer Resources (415) 687-1122**

4330-J Clayton Road Concord, California 94521

BBS: (415) 687-0236 3/12/24/9600

## MICROTIMES 1991 NC COMPUTER RESELLER GUIDE

### CAD AND GRAPHIC COMPUTERS

Store Manager: Shelly Erceg  
1301 Evans Ave.  
San Francisco, CA 94124  
(415)647-6780

**Areas of Specialty:** Computer Aided Design, Desktop Publishing, Graphics

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Logitech, Roland, Genius

**Special Value Added:** 30 day satisfaction guarantee. 2 day delivery.

### CLUBTEK INTERNATIONAL

Store Manager: Various  
P.O. Box 24901, Dept. 241  
San Francisco, CA 94127  
(415)773-3988

**Other Locations:** various

**Areas of Specialty:** High-Tech Discount buying club for any computers, software, add-ons, fax machines, cellular phones, copies etc.

**Operating Systems Supported:** MS-DOS, OS/2, CP/M, AmigaDOS, Mac OS, TOS(Atari), UNIX/XENIX

**Leading Brands Sold:** Various

**Special Value Added:** Discount mail order buyers club.

### COMPUTER ROCK

Store Manager: David M. Bass  
3785 Balboa St.  
San Francisco, CA 94121  
(415)751-8573

**Areas of Specialty:** Atari ST+Portfolio, AST, Mitsuba

**Operating Systems Supported:** MS-DOS, TOS (Atari)

**Leading Brands Sold:** Atari, AST, Mitsuba

**Special Value Added:** On premises installation, free authorized Atari Service.

### COMPUTER SELECTION

Store Manager: Simon Chow  
201 Mission St.  
San Francisco, CA 94105  
(415)543-9892

**Areas of Specialty:** Networking, Desktop Publishing, Multimedia

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS, UNIX/XENIX

**Leading Brands Sold:** Macintosh, Toshiba, Hewlett-Packard

### COMPUTER SHOWCASE

Store Manager: Judy Tergis  
2739 Geary Blvd.  
San Francisco, CA 94118  
(415)563-1953

**Areas of Specialty:**

Video Production  
Desktop Publishing  
Amiga Applications

**In-House Expert:**

Jerry Gainor  
Richard Feeney  
Judy Tergis

**Operating Systems Supported:** Amiga, DOS

**Leading Brands Sold:** Amiga, Gold Disk Software, NewTek

**Special Value Added:** Consulting, training, sales and service in video presentation.

### COMPUTOWN

Store Manager: Tariq Khan  
760 Market St., Ste. 219  
San Francisco, CA 94102  
(415)956-8696

**Other Locations:** Pleasant Hill, Mountain View

**Areas of Specialty:** Networking, Autocad, Unix workstation

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS, UNIX/XENIX, Novell Sun

**Leading Brands Sold:** AST, Sun, Autocad

**Special Value Added:** Authorized repair center for Toshiba, Epson, AST. Training for corporate, on-site service contract.

### DIAMOX CORP.

Store Manager: Greg Kelly  
25 Stillmays St., Ste.100  
San Francisco, CA 94107



RIBBONS AVAILABLE BEST PRICE

# S M A S H

**3 1/2" HD**  
PS/2 2MB  
**75¢**  
Qty 100  
85¢  
Qty 500

**5 1/4" DS/HD (1.2 MB)**  
**PREMIUM BULK**  
**140¢**  
COLOR 59¢  
100% Error Free

**5 1/4" DS/DD**  
**PREMIUM BULK**  
**123¢**  
1000 .23¢  
100% Error Free

**5 1/4" DS/DD**  
**WHITE BOX**  
**128¢**  
10 disks in a plain white box Tyvek sleeves, labels & tabs.  
IN LOTS OF 100

**Verbatim**  
**3 1/2" DS/DD**  
**\$7.50 BOX**

**Verbatim**  
**in Bonus Box**  
**\$3.90**

**ATHANA**  
**5 1/4" DS/DD** ..... \$4.00  
**5 1/4" HD** ..... \$6.50  
**3 1/2" DS/DD** ..... \$7.90  
**3 1/2" HD** ..... \$17.90

**Qty Prices CALL**

**5 1/4" DS/DD**  
**DELUXE**  
**126¢**  
10 DISKS IN A BAG PAPER SLEEVES, LABELS & TABS  
IN LOTS OF 500

**PREMIUM BULK**  
**39¢**  
per 100

**5 1/4" DS/DD**  
**COLOR**  
**35¢**  
Tyvek sleeves, labels & tabs.  
Colors Available:  
light blue, white, lavender, gray, red, brown, green, yellow, blue, orange, med, dark blue, maroon magenta, rainbow pack.  
IN LOTS OF 100



|              |                 |
|--------------|-----------------|
| 5 1/4" DS/DD | \$4.95 BOX CALL |
| 5 1/4" HD    | 7.95 BOX CALL   |
| 3 1/2" DS/DD | 7.95 BOX CALL   |
| 3 1/2" HD    | 14.95 BOX CALL  |



|                 |                 |
|-----------------|-----------------|
| Box of 10 disks | \$5.95 BOX CALL |
| 5 1/4" HD       | 10.95 BOX CALL  |
| 3 1/2" DS/DD    | 9.95 BOX CALL   |
| 3 1/2" HD       | 14.95 BOX CALL  |



|                           |                 |
|---------------------------|-----------------|
| 5 1/4" DS/DD              | \$5.50 BOX CALL |
| 5 1/4" DS/DD Preformatted | 5.50 BOX CALL   |
| 5 1/4" HD Preformatted    | 8.95 BOX CALL   |
| 3 1/2" DS/DD              | 7.95 BOX CALL   |
| 3 1/2" HD                 | 14.85 BOX CALL  |



|              |                 |
|--------------|-----------------|
| 5 1/4" DS/DD | \$4.50 BOX CALL |
| 5 1/4" HD    | 7.50 BOX CALL   |
| 3 1/2" DS/DD | 8.95 BOX CALL   |
| 3 1/2" HD    | 13.95 BOX CALL  |



|              |                 |
|--------------|-----------------|
| 5 1/4" DS/DD | \$6.50 BOX CALL |
| 5 1/4" HD    | 11.50 BOX CALL  |
| 3 1/2" HD    | 19.95 BOX CALL  |
| 3 1/2" DS/DD | 9.95 BOX CALL   |



|              |                 |
|--------------|-----------------|
| 5 1/4" DS/DD | \$3.75 BOX CALL |
| 5 1/4" HD    | 6.95 BOX CALL   |
| 3 1/2" DS/DD | 7.95 BOX CALL   |
| 3 1/2" HD    | 13.95 BOX CALL  |

**SONY**  
**55¢**  
Colors:  
white, red, blue, black, green, yellow, orange, gray, light gray.  
**3 1/2" DS/DD**  
**3 1/2" HD** ..... \$7.95 BOX  
\$14.95 BOX

|                                            |         |
|--------------------------------------------|---------|
| Computer Paper 9 1/2" x 11" 2,500 sheets   | \$22.95 |
| Computer Paper 14 7/8" x 11" 3,000 sheets  | \$32.95 |
| Computer Cables (Parallel, Serial, etc.)   | \$7.95  |
| Power Surge Control (UL)                   | \$8.95  |
| AC Power Pad (Master Pad) (UL)             | \$21.95 |
| 5 1/4" Diskholder holds over 140 diskettes | \$10.95 |
| 5 1/4" Diskholder holds over 100 diskettes | \$8.95  |
| 5 1/4" Diskholder holds over 50 diskettes  | \$6.95  |

|                                                                 |                                    |
|-----------------------------------------------------------------|------------------------------------|
| 5 1/4" Smokey Deluxe Library Case holds 10 diskettes            | \$1.50                             |
| 3 1/2" Diskholder holds over 50 diskettes                       | \$9.50                             |
| 3 1/2" Diskholder holds over 80 diskettes                       | \$10.95                            |
| 3 1/2" Deluxe Library Case holds over 20 diskettes Perfect Data | \$14.95                            |
| 3 1/2" Smokey Deluxe Library Case holds 10 diskettes            | \$1.50                             |
| Head Cleaning Kit for disk drives (3 1/2" or 5 1/4")            | \$3.95                             |
| Data Switch Box                                                 | ABC-\$25, ABCD-\$35                |
| Keyboard Drawer                                                 | Wooden-\$39.95, Grey Metal-\$29.95 |
| Keyboard Drawer                                                 | Under Table \$24.95                |

|                    |         |
|--------------------|---------|
| <b>3M</b>          |         |
| DC-2120            | \$19.95 |
| DC-2000            | \$15.95 |
| DC-600A            | \$19.95 |
| DC-6150            | \$23.95 |
| DC-300XLP          | \$19.95 |
| Maxell CS 600 HD   | \$19.95 |
| Verbatim ST 600 HD | \$9.95  |

**EXTRAS**

|               |    |
|---------------|----|
| Paper Sleeves | 2¢ |
| Tyvek Sleeves | 4¢ |
| Labels & Tabs | 2¢ |

Prices are for minimum 100 diskettes. All diskettes are 101% error free.

Shipping: 1st 100 diskettes, \$3.00, each additional 100, \$1.00 — UPS, COD, Add \$3.30

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in Southern California  
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## 486-25 128K CACHE

AMI BIOS  
1 MB RAM EXPANDABLE TO 16 MB  
SOCKET FOR WINTEK MATH CO-PROCESSOR  
1-32 BIT, 5-16 BIT, & 1-8 BIT SLOTS  
REAL TIME CLOCK/CALENDAR BATTERY  
1.2 MB 5.25" FLOPPY DRIVE  
1 TO 1 HD/FD CONTROLLER CARD  
2 SERIAL, 1 PARALLEL & 1 GAME PORTS  
101 KEY ENHANCED KEYBOARD  
DELUXE CASE W/230 WATT POWER SUPPLY

**\$2099**

## 386-33 MHZ 64K CACHE

AMI BIOS  
1 MB RAM EXPANDABLE TO 16 MB  
SOCKET FOR WINTEK MATH CO-PROCESSOR  
1-32 BIT, 5-16 BIT, & 1-8 BIT SLOTS  
REAL TIME CLOCK/CALENDAR BATTERY  
1.2 MB 5.25" FLOPPY DRIVE  
1 TO 1 HD/FD CONTROLLER CARD  
2 SERIAL, 1 PARALLEL & 1 GAME PORTS  
101 KEY ENHANCED KEYBOARD  
DELUXE CASE W/230 WATT POWER SUPPLY

**\$1159**

## 386-25 MHZ 64K CACHE

AMI BIOS  
1 MB RAM EXPANDABLE TO 16 MB  
SOCKET FOR MATH CO-PROCESSOR  
1-32 BIT, 5-16 BIT, & 1-8 BIT SLOTS  
REAL TIME CLOCK/CALENDAR BATTERY  
1.2 MB 5.25" FLOPPY DRIVE  
1 TO 1 HD/FD CONTROLLER CARD  
2 SERIAL, 1 PARALLEL & 1 GAME PORTS  
101 KEY ENHANCED KEYBOARD  
DELUXE CASE W/230 WATT POWER SUPPLY

**\$985**

## 386-25 MHZ

AMI BIOS  
1 MB RAM EXPANDABLE TO 8 MB  
SOCKET FOR MATH CO-PROCESSOR  
1-32 BIT, 5-16 BIT, & 1-8 BIT SLOTS  
REAL TIME CLOCK/CALENDAR W/BATTERY BACKUP  
1.2 MB 5.25" FLOPPY DRIVE  
1 TO 1 HD/FD CONTROLLER CARD  
2 SERIAL, 1 PARALLEL & 1 GAME PORTS  
101 KEY ENHANCED KEYBOARD  
DELUXE CASE W/230 WATT POWER SUPPLY

**\$849**

## 386SX-16 MHZ

AMI BIOS  
1 MB RAM EXPANDABLE TO 4 MB  
SOCKET FOR MATH CO-PROCESSOR  
7-16 BIT SLOTS  
REAL TIME CLOCK/CALENDAR BATTERY  
1.2 MB 5.25" FLOPPY DRIVE  
1 TO 1 HD/FD CONTROLLER CARD  
2 SERIAL, 1 PARALLEL & 1 GAME PORTS  
101 KEY ENHANCED KEYBOARD  
DELUXE CASE W/230 WATT POWER SUPPLY

**\$599**

## 286-12 MHZ

AMI BIOS  
1 MB RAM EXPANDABLE TO 4 MB  
SOCKET FOR MATH CO-PROCESSOR  
7-16 BIT SLOTS (CAN USE 8 BIT CARDS)  
REAL TIME CLOCK/CALENDAR BATTERY BACKUP  
1.2 MB 5.25" FLOPPY DRIVE  
1 TO 1 HD/FD CONTROLLER CARD  
2 SERIAL, 1 PARALLEL AND 1 GAME PORTS  
101 KEY ENHANCED KEYBOARD  
DELUXE CASE W/200 WATT POWER SUPPLY

**\$369**

FOR 286-16 MHZ ..... \$429

## 8088-10 MHZ

PHOENIX BIOS  
640K RAM MEMORY AND 8-8 BIT SLOTS  
SOCKET FOR MATH CO-PROCESSOR  
MULTI I/O CARD W/1 SERIAL, 1 PARALLEL & 1 GAME PORTS  
CLOCK/CALENDAR W/BATTERY BACKUP AND  
FLOPPY DRIVE CONTROLLER  
360K 5.25" FLOPPY DRIVE  
101 KEY ENHANCED KEYBOARD  
AT STYLE CASE W/150 WATT POWER SUPPLY

**\$249**

## TO ADD HARD DRIVE

20 MB 65 MS ..... \$159  
42 MB 28 MS ..... 229  
80 MB 25 MS ..... 399  
105 MB 25 MS ..... 599  
320 MB 25 MS ..... 895  
678 MB 22 MS ..... 1895

CALL FOR HARD DRIVE  
PRICING FOR 8088-10 MHZ  
SYSTEM

## TO ADD MONITOR & VIDEO CARD

12" AMBER ..... \$79  
14" AMBER ..... 114  
14" VGA (800 x 600) .... 360  
14" SUPER VGA ..... 510  
14" MULTI-SYNC ..... 559

BOTH SUPER AND MULTI-SYNC  
VGA INCLUDE VGA CARD  
WITH 512K EXPANDABLE TO  
ONE MB WITH 1024 x 768  
RESOLUTION

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136 COLUMN

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9600 Baud Fax Card  
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and 2400 Baud Modem

**\$199**

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## MICROTINES 1991 NC COMPUTER RESELLER GUIDE

(415)512-7750

Other Locations: Tampa, FL

Areas of Specialty: Voice Processing Systems

In-House Expert: Greg Kelly

Operating Systems Supported: MS-DOS, OS/2

Special Value Added: User training, voice processing  
systems on LANs, custom systems.

## DIGITAL HIEROGLYPHICS

Store Manager: Britton Peddie

8 Sumner St.

San Francisco, CA 94103

(415)431-8134

Areas of Specialty: Audio/Video (Digital)

In-House Expert: Britton Peddie

Operating Systems Supported: MS-DOS, OS/2, Windows

Leading Brands Sold: Now Computers, Spectral Synthesis,  
Vision Tech

Special Value Added: Special turnkey Audio/Video worksta-  
tions.

## DOMINO SELF SERVICE CENTER

Store Manager: Cynthia Sheng

195 Commonwealth Ave.

San Francisco, CA 94118

(415)668-9311

Areas of Specialty: Technical Support

In-House Expert: Cynthia Sheng

Operating Systems Supported: MS-DOS

Leading Brands Sold: Everex, Hyundai, Toshiba

Special Value Added: Service, Support, Return Policy.

## HYPER COMPUTERS

Store Manager: Sam Chan

2826 Geary Blvd.

San Francisco, CA 94118

(415)567-8282

Other Locations: Milpitas

Areas of Specialty: IBM Compatible Systems, AGI Systems  
(Everex)

In-House Expert: Sam Chan

Operating Systems Supported: MS-DOS, OS/2, UNIX/  
XENIX

Special Value Added: Service, training, support, warranties,  
return policy

## INTERNATIONAL MICRONET SYSTEMS

111 Pine St.

San Francisco, CA 94111

(415)399-1111; Tech (415)399-1234; FAX (415)399-9333

Other Locations: San Jose

Areas of Specialty: LAN, WAN, Training/Support

Operating Systems Supported: MS-DOS, OS/2, UNIX/  
XENIX

Leading Brands Sold: Everex, Banyan, Novell

Special Value Added: Full service LAN/WAN vendor from  
cabling to service contracts

## LEVY COMPUTERWARE, INC.

Store Manager: Dennis R. Levy

2114 28th Ave.

San Francisco, CA 94116

(415)654-4763

Areas of Specialty: Sharp Computer Products Dealer,  
Desktop Computer Systems, Software Development and  
Manufacturing

Operating Systems Supported: MS-DOS

Leading Brands Sold: Sharp Products, 286's, 386's

Special Value Added: Publishers of "How to Handle Any  
Emergency Any Time" Software

## MACHEADS ABOVE THE REST

Store Manager: Jamie Schaffner

3763 17th St.

San Francisco, CA 94114

(415)864-6537

Areas of Specialty: Macintosh Accounting

In-House Expert: Jamie Schaffner

Operating Systems Supported: Mac OS

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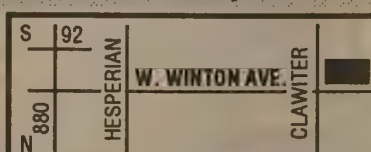
**(415) 783-7788**

FAX: 783-9611



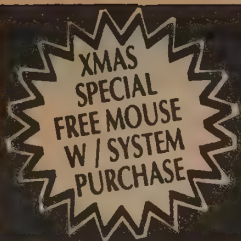
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### 386-33 MHz 64K CACHE

**\$2390**

**CONNER 104 MB IDE HARD DISK**  
**TRIDENT M8900 SUPER VGA w/1 MB RAM**  
**1024x768 w/256 COLORS**  
LANDMARK SPEED = 59 MHz

- 1024x768 14" VGA Monitor
- Intel 33 MHz CPU & AMI BIOS
- 2 MB RAM Expandable to 16 MB
- 64K Cache Expandable To 256K
- Teac 1.2 MB & 1.44 MB (3.5") Floppy Drive
- 2 Serial/1 Parallel/1 Game Port
- Enhanced 101 Keyboard
- AT IDE Controller w/Cable
- Middle or Full Tower Case w/Power Supply

### 386-25 MHz 64K CACHE

**\$1690**

### 386-25 MHz Non-CACHE

**\$1540**

**MAXTOR 40 MB CACHE 32K HARD DISK**

LANDMARK SPEED = 43 MHz/33 MHz

- VGA Monitor & 16 Bit VGA Card
- Intel 25 MHz CPU & AMI BIOS
- 1 MB RAM Expandable to 16 MB
- Teac 1.2 (5.25") or 1.44 MB (3.5") Floppy Drive
- 2 Serial/1 Parallel/1 Game Port
- Enhanced 101 Keyboard
- AT IDE Controller w/Cable
- Mini AT or Mini Tower Case w/Power Supply

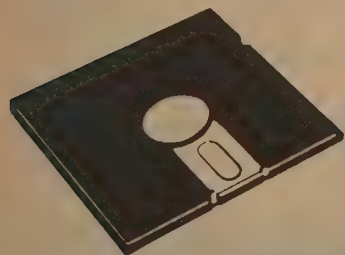
### 386SX-20 MHz

**\$1125**

**MAXTOR 40 MB CACHE 32K HARD DISK**

LANDMARK SPEED = 25 MHz

- Intel 20 MHz CPU & AMI BIOS
- 1MB RAM Expandable to 8 MB
- Teac 1.2 (5.25") or 1.44 MB (3.5") Floppy Drive
- 2 Serial/2 Parallel/1 Game Port
- Mono Graphics Card and 14" Monitor
- Enhanced 101 Keyboard
- At IDE Controller w/Cable
- Mini AT Case w/Power Supply



#### BULK DISKETTES

Qty. 50 +

|      |       |     |
|------|-------|-----|
| 1.44 | ..... | 78¢ |
| 1.2  | ..... | 55¢ |
| 720K | ..... | 49¢ |
| 360K | ..... | 25¢ |

### EISA 486-33 MHz 64K CACHE

**\$5890**

### ISA 486-33 MHz 64K CACHE

**\$5250**

**RELISYS 15" SUPER VGA 1024x768**  
**NON-INTERLACED MONITOR**

**CONNER 210 MB IDE HARD DISK**

LANDMARK SPEED = 115 MHz

- 1024x768 Super VGA w/256K Colors
- Trident M8900 Super VGA w/1 MB RAM
- Intel 486-33 MHz CPU & AMI BIOS
- 4 MB RAM Expandable to 16 MB
- 64K Cache Expandable to 256K
- Teac 1.2 (5.25") and 1.44 MB (3.5") Floppy Drive
- 2 Serial/1 Parallel/1 Game Port
- Enhanced 101 Keyboard
- AT IDE Controller w/Cable
- Tower AT Case w/Power Supply

### EISA 486-25 MHz 64K CACHE

**\$4390**

### ISA 486-25 MHz 64K CACHE

**\$3450**

**CONNER 104 MB IDE HARD DISK**  
**1024x768 SUPER VGA w/256 COLORS**

LANDMARK SPEED = 115 MHz

- Intel 486-25 MHz CPU & AMI BIOS
- 4 MB RAM Expandable to 16 MB
- 64K Cache Expandable to 256K
- Teac 1.2 (5.25") and 1.44 MB (3.5") Floppy Drives
- 2 Serial/1 Parallel/1 Game Port
- Enhanced 101 Keyboard
- Samsung 14" Super VGA Monitor
- AT IDE Controller w/Cable
- Tower AT Case w/Power Supply



# NOVELL

## LANTASTIC



EDITOR'S CHOICE  
LANTastic  
March 28 1989

**EXZEL HOST LAN**  
**EASY NETWORK**

#### SUPER VGA MONITORS

|                       |       |        |
|-----------------------|-------|--------|
| • Mitsubishi 6605 16" | ..... | \$1040 |
| • NEC 4D 16"          | ..... | 1170   |
| • NEC 5D 19"          | ..... | 2190   |
| • SEIKO 1440 14"      | ..... | 530    |
| • AAMAZING 14"        | ..... | 360    |
| • EVERVIEW 14"        | ..... | 320    |
| • SAMSUNG 14"         | ..... | 380    |

#### SUPER VGA MONITORS

|                               |           |
|-------------------------------|-----------|
| • Orchid Pro Designer II 1 MB | \$285     |
| • Paradise VGA 512K RAM       | .. 225    |
| • TVGA 1 MB RAM               | ..... 175 |
| • TVGA 256K RAM               | ..... 85  |
| • ATI Wonder 512K RAM         | ..... 195 |
| • Genoa 512K RAM              | ..... 205 |
| • Oak VGA 800x600             | ..... 70  |

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Sunnyvale, California 94086  
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## MICROTIMES 1991 NC COMPUTER RESELLER GUIDE

**Leading Brands Sold:** Layered, Checkmark, Inman  
(Monogram Digital, Inc.)

**Special Value Added:** Macintosh accounting support

### MICRO SOURCES/MAYCOM COMMUNICATIONS

888 Brannan St. #275  
San Francisco, CA 94103  
(415)552-0070

**Areas of Specialty:** Voice Mail Systems

**In-House Expert:** Barry Wong

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

### MICROFLEX (A MULTIFLEX DIVISION)

Store Manager: Various  
44 Montgomery St., Ste. 500  
San Francisco, CA 94104  
(415)564-1128

**Areas of Specialty:** CAD/CAM, Networking, Multimedia  
**Operating Systems Supported:** MS-DOS, OS/2, CP/M, Mac OS, UNIX/XENIX

**Leading Brands Sold:** Toshiba, NEC, AST

**Special Value Added:** 30/30 purchase protection: 30 days price protection and money back guarantee. Most any brands, clones, computers/hardware software and peripherals at discounts.

### MICROLINK SYSTEMS, INC.

Store Manager: Pearson Huang  
4721 Geary Blvd.  
San Francisco, CA 94118  
(415)750-0650

**Other Locations:** 1800 Wyatt Dr., Ste. 4, Santa Clara, CA 95054

**Areas of Specialty:** **In-House Expert:**

Unix (SCO, Interactive) Tony Chen  
Novell (Netware, 386) Thomas Peng  
Custom Programming Sunny Yin

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, Novell

**Leading Brands Sold:** Corrado (Motherboard)

**Special Value Added:** Customer satisfaction warranty, free training program for network and Unix users.

### MULTI MICRO, INC.

Store Manager: Terri Borg/ Johannes Jensen  
582 Folsom St.  
San Francisco, CA 94105  
(415)979-0140

**Other Locations:** Denmark

**Areas of Specialty:** Hardware Systems, Multi Media, Unix, DOS

**In-House Expert:** Tris Kosasih

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** MultiMicro

**Special Value Added:** Service, training, support warranties, one year on site/VAR club

### NOE VALLEY COMPUTERS

Store Manager: Neil Lancaster  
85 29th St.  
San Francisco, CA 94110  
(415)282-3010

**Areas of Specialty:** PowerLAN Peer-to-Peer Netnodes  
Laser Master High-resolution  
Printing Devices  
Repair and Service

**In-House Expert:**

Howard Petrick  
Neil Lancaster

Fred Lancaster

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** NVC (Our Own)

**Special Value Added:** One year on-site parts and labor, offer same day; on-site service for new clients.

### ONN

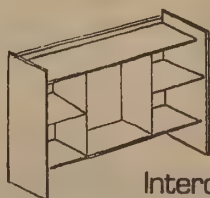
Store Manager: Kenneth Shaw  
463 39th Ave.  
San Francisco, CA 94121  
(415)221-7054

**Areas of Specialty:** Software Support

**In-House Expert:** June Shaw

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**DESKS**  
50Lx25D  
w/Keyboard  
Drawer  
And Casters



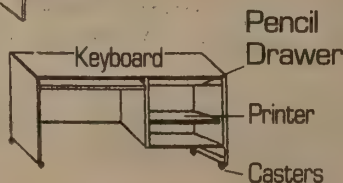
### HUTCHES - 2 STYLES



Interchangeable  
Hutches



### DESK BASES - 2 STYLES



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**ALPHA**  
FINE COMPUTER FURNITURE  
930-0277  
2241 N. MAIN-WALNUT CREEK



## 486-25 MHZ 128K CACHE

LANDMARK=115

- 1 MB RAM EXPANDABLE TO 16MB
- AMI BIOS
- 1X32 BIT, 5X16 BIT, 1X8 BIT SLOTS
- REAL TIME CLOCK W/BATTERY BACKUP
- 1.2 MB FLOPPY DRIVE
- 1:1 2 FL/2HD CONTROLLER
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- 230W PS W/CASE HOLDS 5 DRIVES
- 101 ENHANCED KEYBOARD

# \$1899

## 386-33 MHZ 64K CACHE

LANDMARK=56

- 1 MB RAM EXPANDABLE TO 8 MB
- SOCKET 80387 & AMI BIOS
- 1X32 BIT, 5X16 BIT, 1X8 BIT SLOTS
- REAL TIME CLOCK W/BATTERY BACKUP
- 1.2 FLOPPY DRIVE
- 1:1 2 FL/2HD CONTROLLER
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- 230W PS W/CASE HOLDS 5 DRIVES
- 101 ENHANCED KEYBOARD

# \$1059

## 386-25 MHZ 64K CACHE

LANDMARK=43

- 1 MB RAM EXPANDABLE TO 8 MB
- SOCKET 80387 & AMI BIOS
- 1X32 BIT, 5X16 BIT, 2X8 BIT SLOTS
- REAL TIME CLOCK W/BATTERY BACKUP
- 1.2 FLOPPY DRIVE
- 1:1 2 FL/2HD CONTROLLER
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- 230W PS W/CASE HOLDS 5 DRIVES
- 101 ENHANCED KEYBOARD

# \$985

## 386-25 MHZ

LANDMARK=33

- 1 MB RAM EXPANDABLE TO 8 MB
- SOCKET 80387 & AMI BIOS
- 1X32 BIT, 5X16, 2X8 BIT SLOTS
- REAL TIME CLOCK W/BATTERY BACKUP
- 1.2 FLOPPY DRIVE
- 1:1 2 FL/2HD CONTROLLER
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- 200W PS W/CASE HOLDS 5 DRIVES
- 101 ENHANCED KEYBOARD

# \$849

## 386SX-16 MHZ

LANDMARK=21

- 1 MB RAM EXPANDABLE TO 4 MB
- SOCKET 80387 & AMI BIOS
- 6X16 BIT, 2X8 BIT SLOTS
- REAL TIME CLOCK W/BATTERY BACKUP
- 1.2 FLOPPY DRIVE
- 2 FL/2HD CONTROLLER
- 200W PS W/CASE HOLDS 5 DRIVES
- 101 ENHANCED KEYBOARD

# \$599

## 286-12 MHZ

LANDMARK=16

- 512K RAM EXPANDABLE TO 4 MB
- SOCKET 80287 & AMI BIOS
- 6X16 BIT, 2X8 BIT SLOTS
- REAL TIME CLOCK W/BATTERY BACKUP
- 1.2 FLOPPY DRIVE
- 2 FL/2HD CONTROLLER
- 200W PS W/CASE HOLDS 5 DRIVES
- 101 ENHANCED KEYBOARD

# \$369

# CHRISTMAS SUPER SALE

## COMPLETE 40 MB VGA SYSTEMS

- 286-12 MHZ 40 MB VGA ..... \$939
- 386-16 MHZ 40 MB VGA ..... \$1159
- 386-25 MHZ 40 MB VGA ..... \$1399
- 386-33 MHZ 40 MB VGA ..... \$1639
- 486-25 MHZ 40 MB VGA ..... \$2499

### INTERFACE CARD

|                                    |      |
|------------------------------------|------|
| Mono Graphic Card                  | \$19 |
| Color Graphic Card                 | 30   |
| Floppy Controller 360/720/1.2/1.44 | 39   |
| XT/AT 2.4 Floppy Drive Card        | 29   |
| EGA Card                           | 60   |
| VGA Card 16 Bit (800x600)          | 65   |
| Paradise VGA+ 16 (1024x768 OEM)    | 130  |
| Genoa VGA 6300 1024x768            | 150  |
| Trident VGA 1024x768 1 MB          | 185  |
| VGA Card                           | 85   |
| ATI Wonder (1024x768)              | 199  |
| AT I/O (2S, 1P, 1G)                | 25   |
| 1:1 FDC/HDC (MFM)                  | 70   |
| DTC 7280 1:1 FDC/HDC               | 99   |
| DTC 7287 1:1 FDC/HDC (RLL)         | 109  |
| DTC 6280 ESDI                      | 145  |

### MODEM

|                                  |      |
|----------------------------------|------|
| 1200 Baud (Int)                  | \$60 |
| 2400 Baud (Int)                  | 65   |
| Fax Modem (9600 Fax, 2400 Modem) | 160  |
| 2400 Baud (Ext)                  | 110  |
| Zoltrix 2400 Modem               | 80   |

### FLOPPY DRIVE

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|--------------------|------|
| Fujitsu 360K/1.2M  | \$55 |
| Teac 360K/1.2M     | 60   |
| Fujitsu 720K/1.44M | 60   |
| Teac 720K/1.44M    | 65   |

### KEYBOARD

|                     |    |
|---------------------|----|
| 101 Keys            | 33 |
| Keytronic 101 Keys  | 48 |
| BTC 101 Keys        | 39 |
| Lite On 101 Keys    | 39 |
| Fujitsu 101 Keys    | 45 |
| Track Ball Keyboard | 99 |

### PRINTERS

|                     |     |
|---------------------|-----|
| Panasonic KX-P1180  | 160 |
| Panasonic KX-P1124  | 270 |
| Panasonic KX-P 1624 | 389 |

### CHIPS

|             |           |
|-------------|-----------|
| 80276-8/10  | \$194/210 |
| 80387-20/25 | 360/440   |
| 80386-25/33 | 340/360   |
| 256K-8      | 2         |
| 256Kx4      | 21        |
| 1 MB-8      | 5         |
| 1 MBx9      | 55        |

### MOTHERBOARDS

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|--------------------------------|---------|
| DTK 8088 10 MHZ                | \$68    |
| 286-16/12 MHZ 0 Wait           | 169/110 |
| 386SX-16 MHZ 0 Wait            | 320     |
| 386-20 MHZ 0Wait (w/o CPU)     | 239     |
| 386-25 MHZ 64K Cache (w/o CPU) | 340     |
| 386-33 MHZ 64K Cache (w/o CPU) | 375     |
| Micronics 25 MHZ (w/CPU)       | 1090    |
| Micronics 33 MHZ (w/CPU)       | 1295    |
| LapTop Samsung                 | 1699    |
| 486-25 MHZ 128K (w/CPU)        | 1799    |

### HARD DISK

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|--------------------------------|-------|
| ST-225 (20 MB)                 | \$185 |
| ST-238 (30 MB)                 | 230   |
| ST-251-1 (40 MB, 28ms)         | 245   |
| Toshiba 134FA (44/66 MB, 24ms) | 330   |
| NEC 3142 (44/66 MB, 24ms)      | 330   |
| Conner 80 MB                   | 469   |
| Conner 100 MB                  | 495   |
| Conner 200 MB                  | 769   |
| Maxtor 4170E ESDI 150MB, 14ms  | 895   |
| Maxtor 4380E ESDI 320 MB, 16ms | 1489  |
| Maxtor 8760E ESDI 660 MB, 16ms | 2299  |
| CDC SCSI 150 MB 18ms           | 869   |
| Miniscribe 330 MB SCSI         | 1199  |
| Miniscribe 330MB ESDI          | 1199  |
| NEC 150 MB                     | 799   |

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| 230W Power Supply                 | 48   |
| Logi Hi-Res Mouse                 | 70   |
| Logi Trackman Ser/Bus             | 80   |
| Baby AT Case (XT)                 | 45   |
| AT Full Size Case                 | 50   |
| Mini Vertical Case w/Power Supply | 115  |
| Tower Case w/Power Supply         | 179  |

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| Color Monitor             | 199  |
| Hyundai EGA               | 300  |
| Hyundai VGA               | 270  |
| VGA Monitor               | 290  |
| Relisys Multisync         | 425  |
| NEC Multisync 2A          | 499  |
| NEC Multisync 3D          | 599  |
| Super VGA (1024x758) 0.28 | 369  |

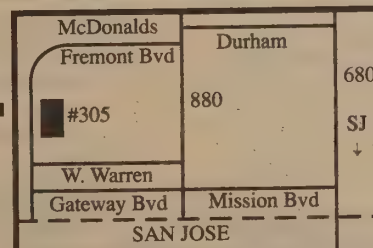
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| Okidata 391  | 632   | Diconix 150 Plus | 335   |
| Star NX1000  | 189   | NEC 6200         | 478   |
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| Kurta IS/ONE 12x12 | 349   |
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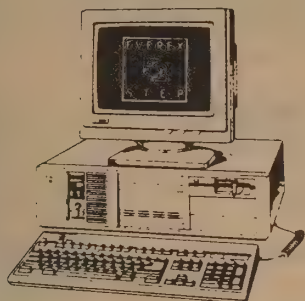


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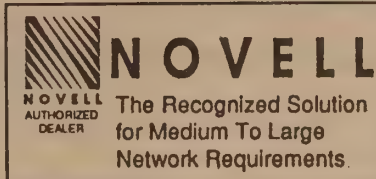


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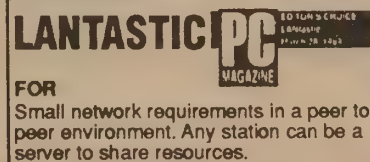
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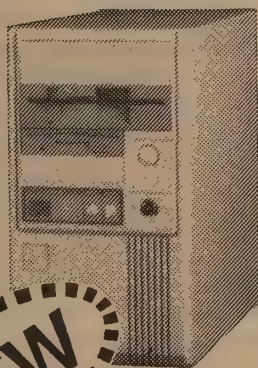
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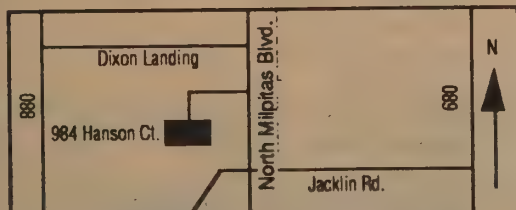
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| Personal LaserWriter NT           | \$2,296 |
| LaserWriter II NT                 | \$3,026 |
| LaserWriter II NTX                | \$4,036 |
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| Toshiba T1200XE          | \$2,060 |
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| Toshiba T1600 40 MB      | \$2,575 |
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| Toshiba T3100SX 40 MB HD | \$3,863 |
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| Epson EPL 6000 Laserprinter | \$852 |

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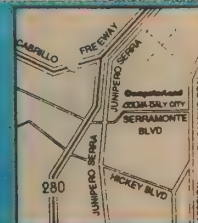
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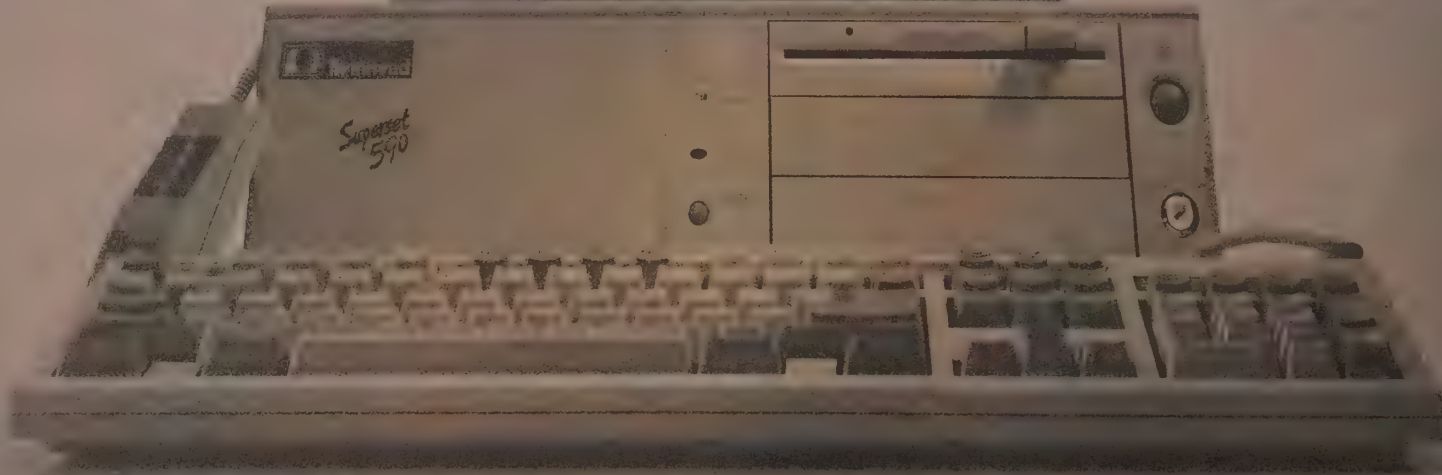


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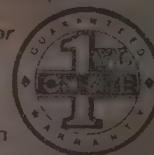
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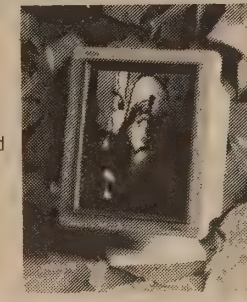
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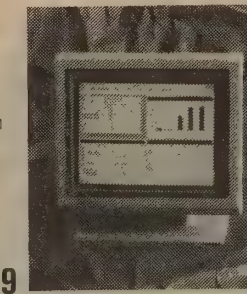
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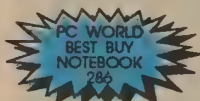
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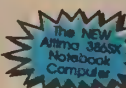
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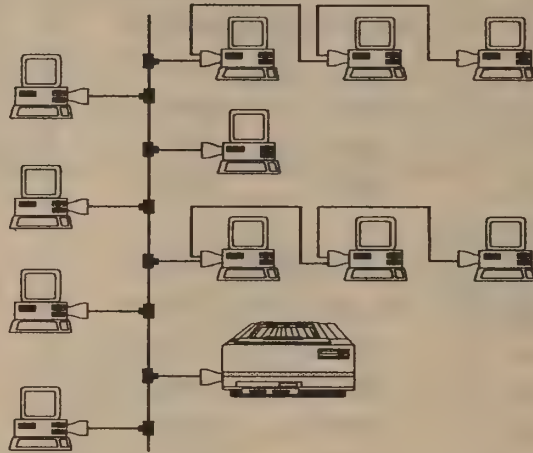
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**Special Value Added:** Service, support, warranties and return policy.

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#### Areas of Specialty:

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#### In-House Expert:

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James Hebert  
Michael J. Ingolia

**Operating Systems Supported:** MS-DOS, AmigaDOS

**Leading Brands Sold:** Amiga Computers

**Special Value Added:** Service and training.

### INNOVATIVE SOLUTIONS AND TECHNOLOGY, INC.

Store Manager: A. Eejima  
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Burlingame, CA 94010  
(415)579-1916

#### Areas of Specialty:

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Accounting  
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#### In-House Expert:

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B. Moore  
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**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Special Value Added:** Service, training, support

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Store Manager: Farhad Zaeni  
2156 Old Middlefield Way  
Mountain View, CA 94043  
(415)940-1988

#### Areas of Specialty:

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286 and 386  
Apple

#### In-House Expert:

Pirooz Binesh  
Farhad Zaeni  
Jim Binesh

**Operating Systems Supported:** MS-DOS, Mac OS

**Leading Brands Sold:** DTK, Hewlett-Packard, Apple

**Special Value Added:** Service, support, warranties, return policy, free estimate

### INTERNATIONAL DESIGNS

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Moss Beach, CA 94038  
(415)728-5910

#### Areas of Specialty:

Complete Systems  
SQL

#### In-House Expert:

Bob  
Lee

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Impulse

**Special Value Added:** Support, custom programming.

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Store Manager: Jay McCowan  
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**Other Locations:** Dallas, Houston, Atlanta, Phoenix

**Areas of Specialty:** IBM compatible hardware, service and support, Epson printers and computers

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Jade, Hyundai, Epson

**Special Value Added:** Service, telephone support, manufacturer's warranty. Satisfaction guaranteed or your money back.

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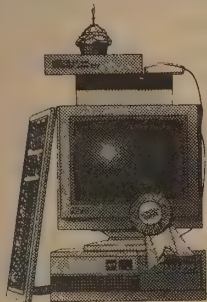
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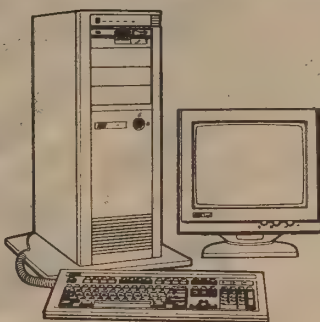
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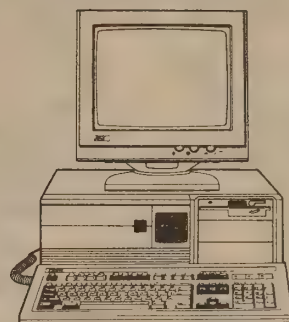
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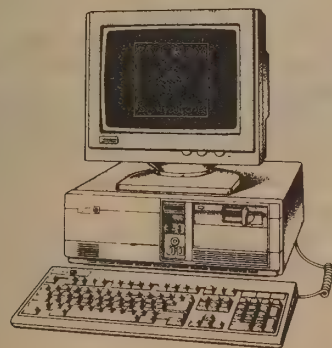
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AST Bravo/386SX  
AST Bravo/286

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AST Premium 486/25  
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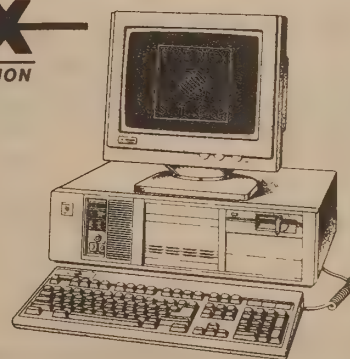


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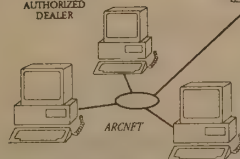
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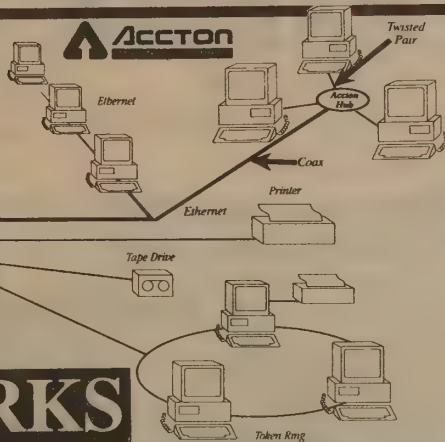
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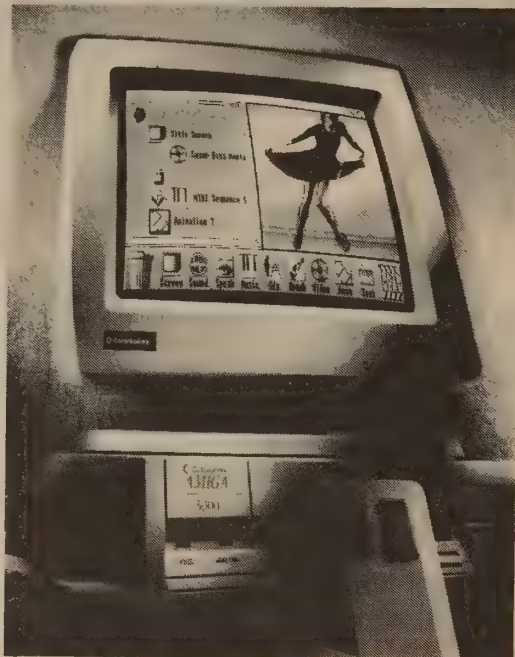
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**Areas of Specialty:**

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**In-House Expert:**

Jeff Dauch  
Dennis Heidenfeldt  
Bill Paisley

**Operating Systems Supported:** MS-DOS, OS/2, CP/M, Mac OS, UNIX/XENIX, Novell Legacy

**Leading Brands Sold:** NBI, Novell, Legacy

**Special Value Added:** One stop shopping

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**Leading Brands Sold:** Novell, 3 Com, Banyan

**Special Value Added:** Computer networking, LAN installation, LAN trouble-shooting, LAN training, technical support.

### NETWORK INNOVATIONS

Store Manager: Patrick Yuen  
90 South Spruce Ave., Ste. N  
So. San Francisco, CA 94080  
(415)872-1377

**Areas of Specialty:**

Novell NetWare  
SCSI Device Integration  
Paradox

**In-House Expert:**

Linda Lagarejos  
Patrick Yuen  
Patrick Yuen

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Novell Netware, AST Research

**Special Value Added:** System integration, cabling, training, hardware and software support, on-site installation computer to computer support.

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**Areas of Specialty:**

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Business Software (General)  
Game Software (General)

**In-House Expert:**

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Support Service Group  
Support Service Group

**Operating Systems Supported:** MS-DOS, Mac OS, Apple II

**Leading Brands Sold:** Education, Games, WordPerfect Support Tools

**Special Value Added:** Wholesaler, retailer of low-cost/affordable quality software (software disks from \$2.99)

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(415)872-6668

**Areas of Specialty:**

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Computers  
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**In-House Expert:**

Roger  
Rick  
Rick

**Operating Systems Supported:** MS-DOS, AmigaDOS, Mac OS

**Leading Brands Sold:** Toshiba, Olympia, Canon

**Special Value Added:** Service, trade-up, trade ins

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**Areas of Specialty:** Math Chip, Cyrix, Intel and Ram and CPU, System Integration, Fast Service

**Operating Systems Supported:** MS-DOS, OS/2

**Leading Brands Sold:** PAM System, Cyrix, Intel

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| AGI 1800C 286-12MHz/OWS/1MB/40MB HD .....   | 990   |
| AGI 3000G 386SX-16MHz/OWS/1MB/80MB HD ..... | 1555  |

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| AGI 3000D 386-20MHz/OWS/1MB/80MB HD .....            | 1890 |
| AGI 3000L 386-25MHz/OWS/2MB/64K Cache/158MB HD ..... | 3290 |
| AGI 3000K 386-33MHz/OWS/4MB/64K Cache/158MB HD ..... | 3790 |
| AGI 4000A 486-25MHz/OWS/4MB/64K Cache/158MB HD ..... | 5850 |

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- Conner 104MB Hard Drive (25MS)
- Teac 1.2 or 1.44MB Floppy Drive
- Top Quality AT Case
- 200 Watt Power Supply
- 101 Enhanced Keyboard
- Real Time Clock/CMOS Memory
- 80387 Math Co-processor Socket
- 1-32, 6-16, 1-8 Bit Expandable Slots

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| 25MHz .....             | \$1425  |
| 25MHz w/64K Cache ..... | 1599    |
| 33MHz w/64K Cache ..... | 1725    |
| Tower Option .....      | Add 100 |

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- Seagate ST157A 40MB Hard Drive (28MS)
- Teac 1.2 or 1.44MB Floppy Drive
- Top Quality AT Case
- 200 Watt Power Supply
- 101 Enhanced Keyboard
- Real Time Clock/CMOS Memory
- 80387SX Math Co-Processor Socket
- 6-16, 2-8 Bit Expandable Slots

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| 16MHz ..... | \$890 |
| 20MHz ..... | 1010  |



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|--------------------------------------------------------------|------|
| GoldStar Mono Monitor w/MGP Card .....                       | \$90 |
| GoldStar EGA Monitor w/EGA Card .....                        | 349  |
| GoldStar VGA Monitor w/16 Bit VGA Card .....                 | 359  |
| Goldstar 1024x768 VGA Monitor w/16-Bit w/512K VGA card ..... | 475  |

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|                                                        |       |
|--------------------------------------------------------|-------|
| Seagate ST157A 40MB .....                              | \$269 |
| Western Digital 40MB .....                             | 265   |
| Conner 104MB .....                                     | 550   |
| Conner 200MB .....                                     | 880   |
| *Bundles Drives Include Drive Controller/2S1P1G, Cable |       |

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|----------------------------------------|-------|
| Epson FX850 .....                      | \$355 |
| Epson FX 1050 .....                    | 499   |
| Epson LQ510 .....                      | 315   |
| Epson LQ850 .....                      | 520   |
| Epson LQ950 .....                      | 535   |
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| Panasonic KX1180 .....                 | 165   |
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| Panasonic KX1124 .....                 | 295   |
| Panasonic KX-1524 .....                | 365   |
| Panasonic KX-1624 .....                | 365   |
| Panasonic LASER PARTNER KX-P4420 ..... | 925   |
| Panasonic LASER PARTNER KX-P4450 ..... | 1335  |
| HP LaserJet IIP .....                  | 995   |
| HP Laser Series III .....              | 1625  |

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|                  |      |
|------------------|------|
| Teac 360K .....  | \$62 |
| Teac 1.2MB ..... | 75   |

|                   |    |
|-------------------|----|
| Teac 720K .....   | 68 |
| Teac 1.44MB ..... | 75 |

### MISCELLANEOUS

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|-----------------------------------------|-----|
| Mono Graphic Card w/pp .....            | 20  |
| Everex EGA Card w/o pp .....            | 60  |
| Everex EGA Card w/pp .....              | 65  |
| Oak Chip Set 16Bit VGA Card .....       | 75  |
| Paradise Chip Set 16 Bit VGA Card ..... | 95  |
| Everex VGA Card .....                   | 145 |
| AT I/O 2S1P1G .....                     | 27  |
| Everex I/O S.P. Port .....              | 40  |
| Everex I/O S.P.G. Port .....            | 45  |
| IDE Drive Host Adapter .....            | 35  |
| IDE Drive Host Adapter/2S1P1G .....     | 55  |
| Everex Ram 3000 Memory Board .....      | 79  |
| Everex Ram 8000 Memory Board .....      | 175 |
| Everex Ram 10,000 Memory Board .....    | 130 |
| Keytronics 101 Key Keyboard .....       | 44  |
| Mitsumi 101 Keyboard .....              | 37  |
| Serial Card .....                       | 20  |
| XT Multi I/O .....                      | 45  |
| Universal Floppy Controller .....       | 40  |

### MODEMS

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|--------------------------------------------|------|
| Zoltrix 2400 (Int) .....                   | \$60 |
| Send Fax 4800B/2400B (Int) .....           | 75   |
| Send & Receive Fax 9600B/2400B (Int) ..... | 169  |
| Everex 1200B (Int) .....                   | 49   |
| Everex 2400B (Int) .....                   | 105  |
| Everex 2400B/MNP (Int) .....               | 139  |
| Everex 2400B (Ext) .....                   | 159  |
| Everex 2400B/MNP (Ext) .....               | 189  |
| Everex FAX 9600/2400B (Int) MNP .....      | 249  |
| Everex FAX 9600/2400B (Ext) MNP .....      | 305  |

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| BTC 14" Amber Flat Screen .....             | \$99 |
| Supertron 14" Paper White Flat Screen ..... | 99   |
| GoldStar Mono Amber 12" .....               | 72   |
| GoldStar 14" RGB .....                      | 199  |
| GoldStar 14" EGA .....                      | 285  |
| GoldStar 14" VGA .....                      | 275  |

|                              |     |
|------------------------------|-----|
| GoldStar 14" Super VGA ..... | 350 |
| NEC 2A .....                 | 485 |
| NEC 3D .....                 | 625 |
| Nanao 8060S .....            | 565 |
| Nanao 9070S .....            | 945 |
| Evervision EGA .....         | 345 |
| Evervision VGA .....         | 360 |
| Relisys EGA .....            | 330 |
| Relisys VGA .....            | 320 |
| Relisys Multisync .....      | 435 |

### HARD DISKS

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|----------------------------|-------|
| Seagate ST225 20MB .....   | \$180 |
| Seagate ST251-1 40MB ..... | 240   |
| Seagate ST4096 80MB .....  | 520   |
| Maxtor XT-1085 71MB .....  | 585   |
| Maxtor XT-1140 120MB ..... | 1275  |
| Maxtor XT-2190 160MB ..... | 1305  |

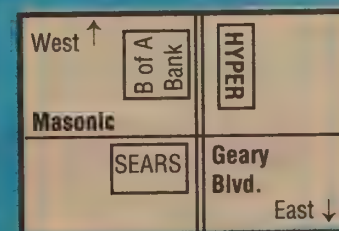
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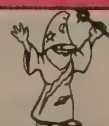
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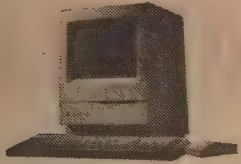
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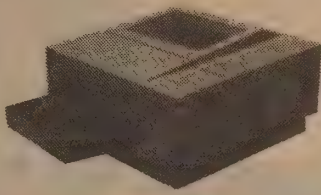
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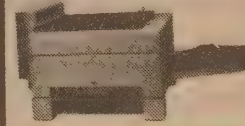


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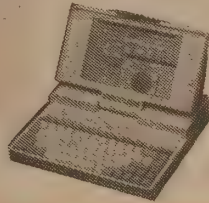


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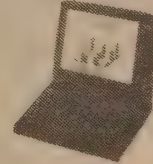
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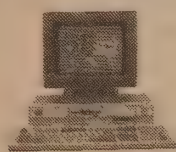
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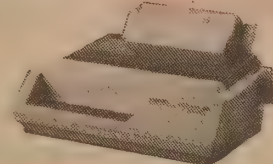
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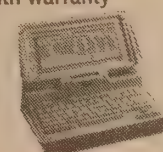
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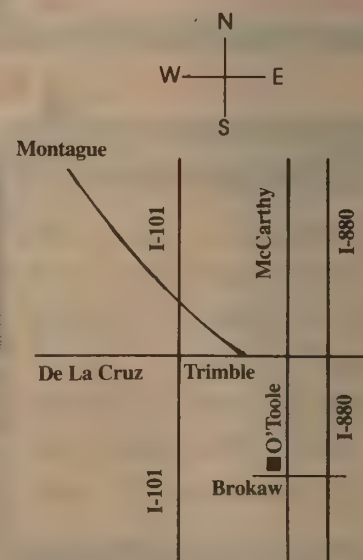
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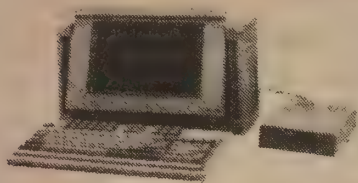
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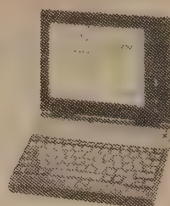
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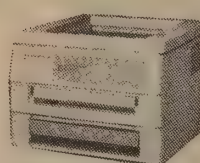
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- HP II emulation, Upgradeable, 6-ppm
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- Dual Floppy/Dual Hard Controller
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- 40 MB Hard Disk (28 ms)
- One Year Warranty Parts & Labor

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- Dual Floppy/Dual Hard Controller
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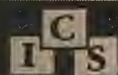
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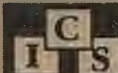


## ICS 386/25 SYSTEM

LANDMARK = 34.5

- Free Mouse with Software
- 1 MB RAM
- **40 MB** Hard Disk .28ms
- 1.2M or 1.44M Floppy/Controller
- 2 Serial, 1 Parallel, 1 Game Port
- Clock/Calendar Backup Battery
- 101 Key Enhanced Keyboard
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LANDMARK = 21

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- Clock/Calendar Backup Battery
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LANDMARK = 15.9

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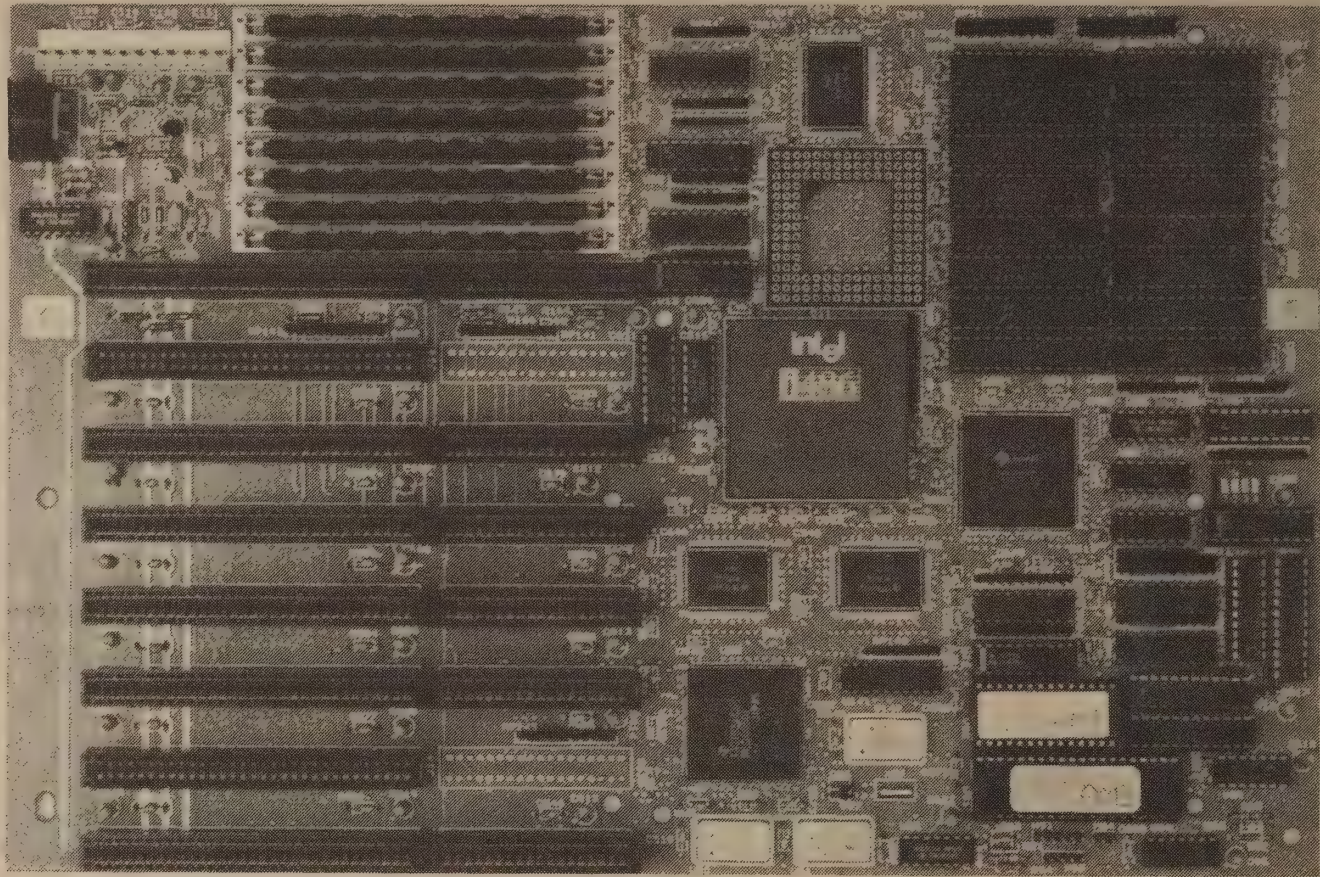
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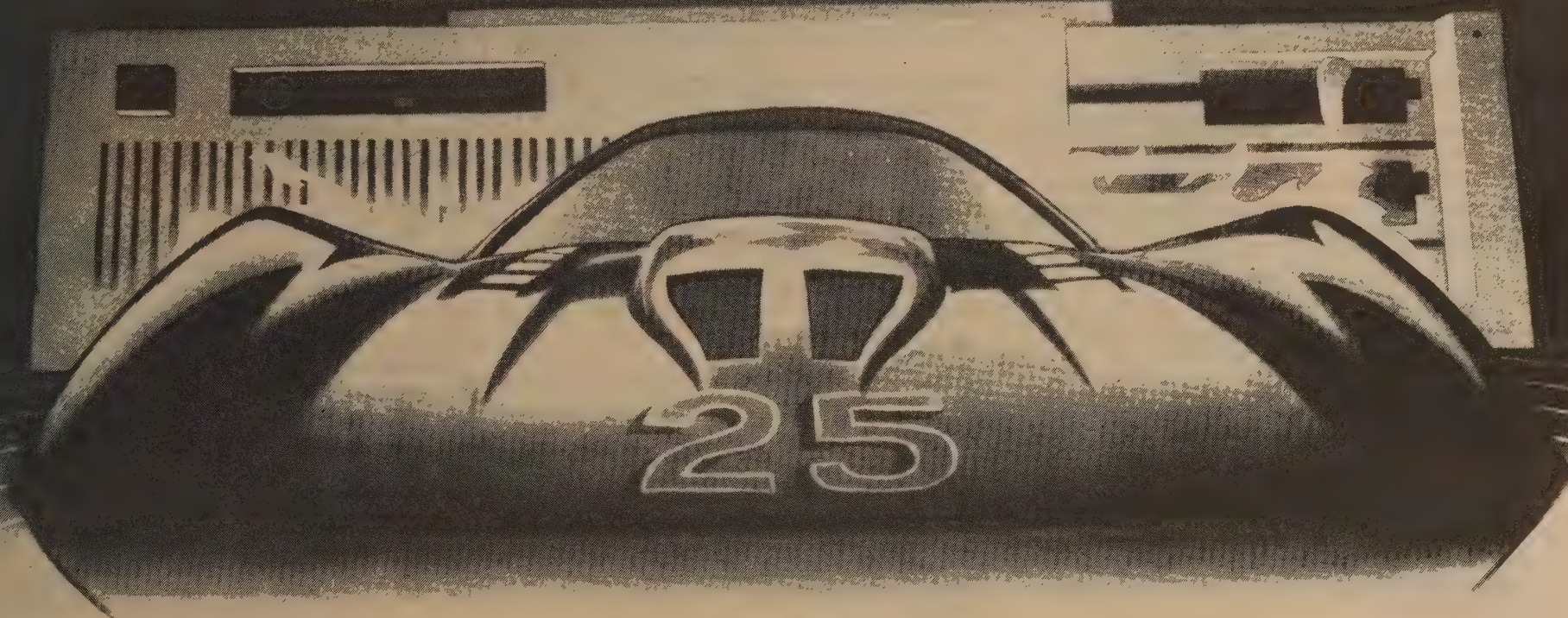
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- 84MB Fast hard drive 18(ms)
- Serial/Parallel port
- Enhanced keyboard
- 38MHz performance

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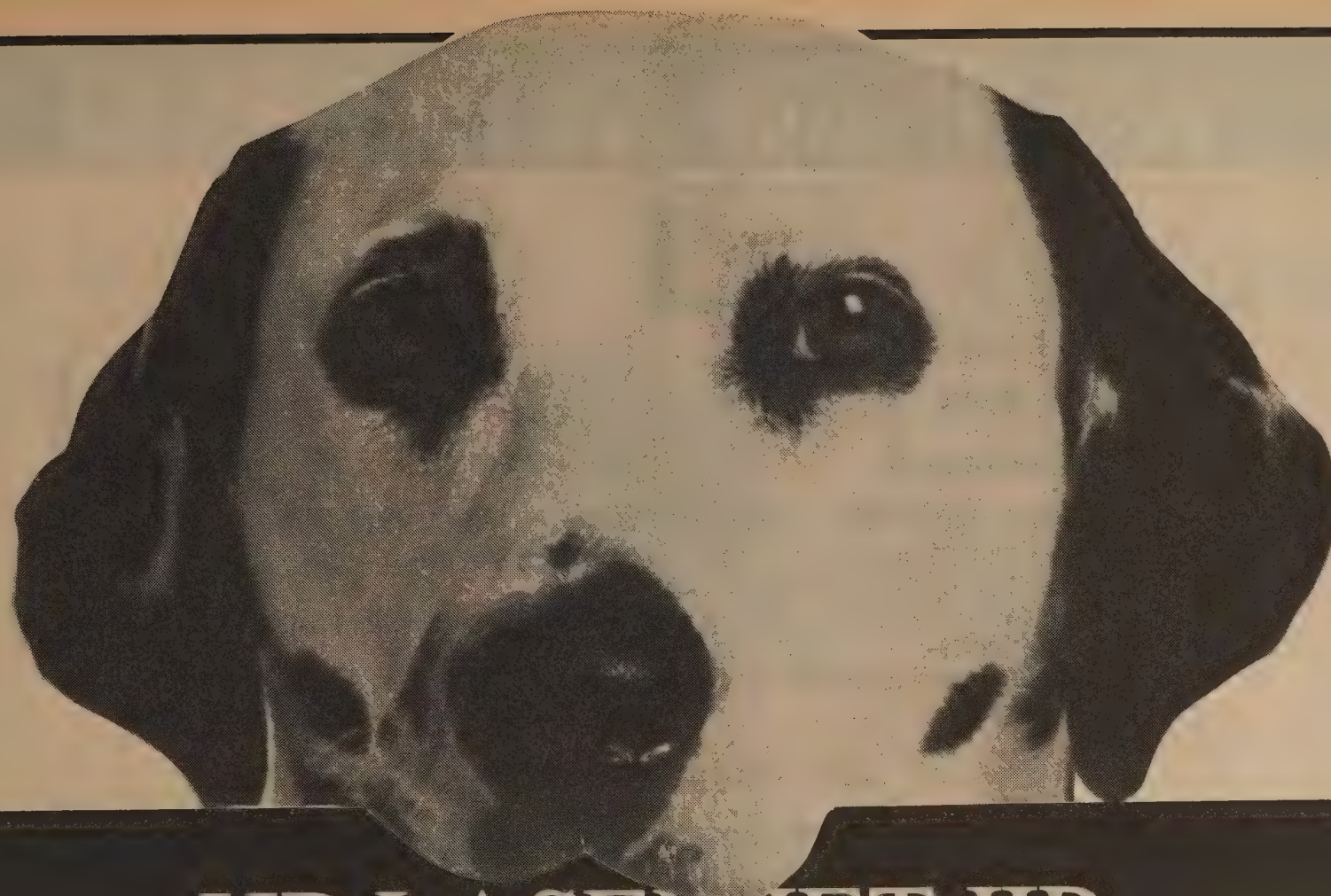
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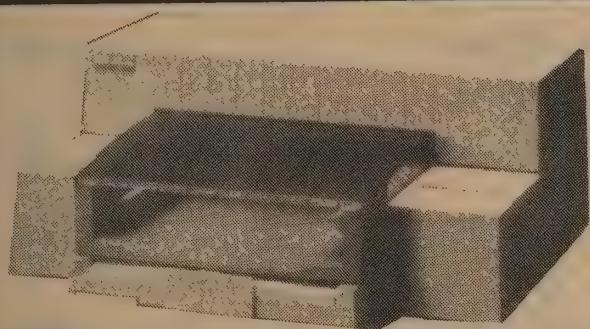




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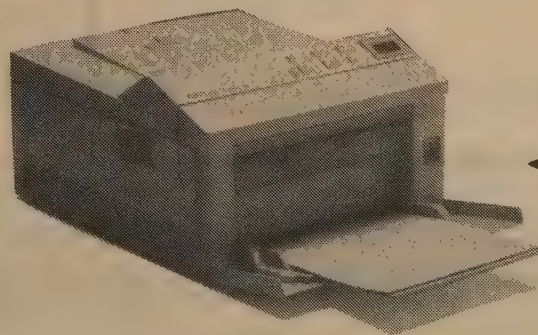
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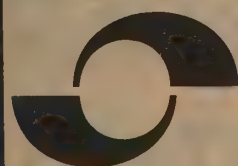
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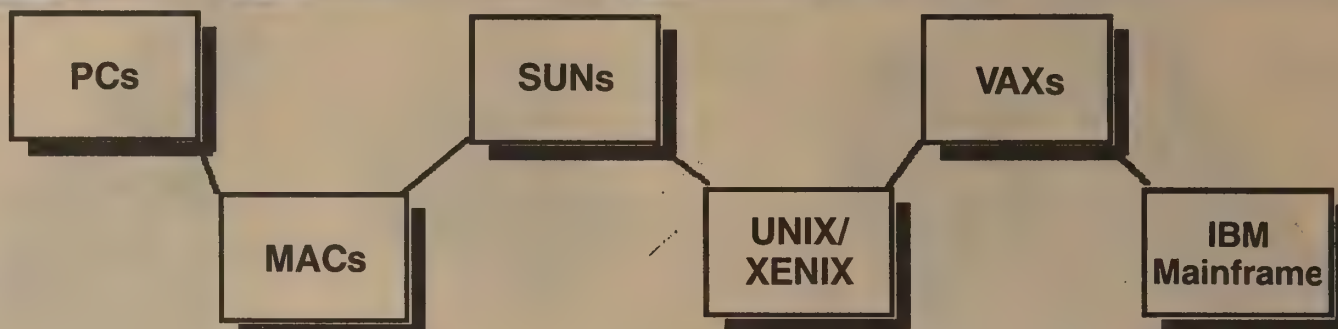
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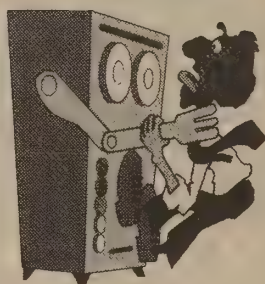
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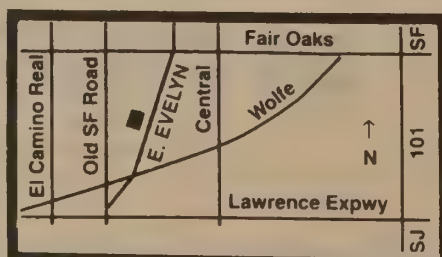


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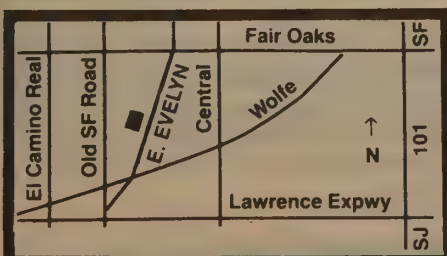
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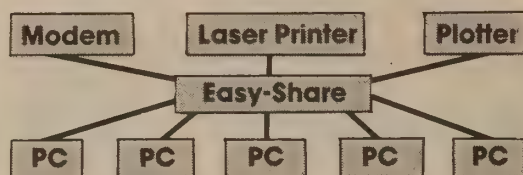
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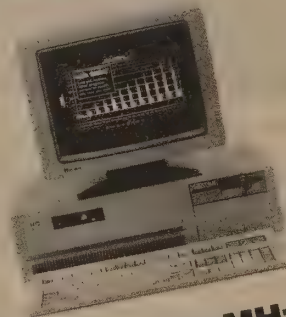
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| 20 MB ST225 Seagate   | \$179 |
| 40 MB ST251-1 Seagate | .269  |
| 80 MB ST 4096 Seagate | .529  |

| IDE HARD DISKS        |       |
|-----------------------|-------|
| 40 MB Western Digital | \$239 |
| 40 MB Conner          | .329  |
| 80 MB Conner          | .517  |
| 100 MB Conner         | .479  |
| 200 MB Conner         | .789  |

# \$1999

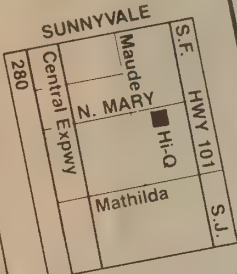
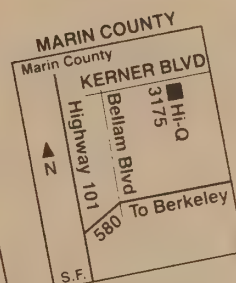
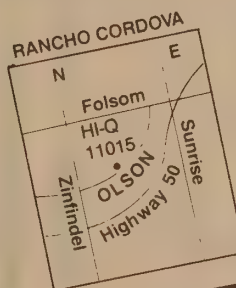
## VERTICAL 386-33 w/64K CACHE

### 200 MB IDE HARD DRIVE SYSTEM

- Landmark = 58.5 SI = 45.9
- 1 MB RAM Expandable to 8 MB On Board
- 200 MB IDE Hard Drive
- 1.2 or 1.44 MB Floppy Disk
- 1:1 Interleave Hard/Floppy Disk
- Socket for 80387 Socket & Weitek Math Co-Processor
- 2 Serial, 1 Parallel, 1 Game Port
- Real Time Clock/CMOS Memory w/Battery Back-Up
- 230 W Power Supply & Vertical Case Holds 6 Drives
- 101 Key Keyboard
- Supports-MS DOS, OS/2, PC-MOS/386, UNIX, XENIX, DR, DOS, Concurrent DOS 386
- 64K Cache



AMI or MICRONICS  
MOTHERBOARD UPGRADE  
OPTION AVAILABLE  
Monitor & Card Not Included



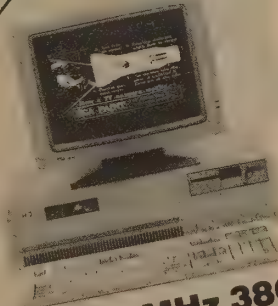
16 MHz

20 MHz

\$995

\$1095

SPECIAL



### Hi-Q 16/20 MHz 386-SX Landmark = 19.5 SI = 18 66 MB HARD DRIVE

- 1 MB RAM Expandable to 8 MB On-board
- 1.2 or 1.44 MB Floppy Drive
- 66 MB Hard Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 80387 Socket
- 2 Serial, 1 Parallel, 1 Game Port
- Real Time Clock/CMOS Memory w/Battery Back-up
- 230W Power Supply & Quality Case
- 101 Key Enhanced Keyboard
- Supports—MSDOS, OS/2, PC-MOS/386, UNIX, XENIX, DR-DOS, Concurrent DOS 386
- Monitor & Card Not Included

HI-Q HAS THE  
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TECHNICAL SUPPORT  
& SERVICE  
IN THE BAY AREA!!!

## HI-Q SYSTEMS

"Serving All Your Computer  
Needs Since 1986"

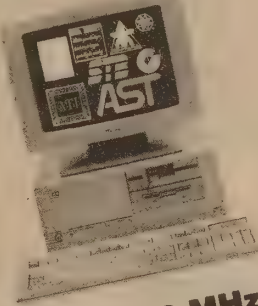
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Stanford Univ., Lockheed, Argo  
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OVER 27,000  
SYSTEMS SOLD  
OUR SHOWROOM  
COMPUTERS OFFER  
OS/2, WINDOWS 3.0,  
UNIX, ETC. FOR YOUR  
TESTING



\$545



### Hi-Q 12 MHz 286-AT SYSTEM COMPLETE SYSTEM Landmark = 15.9 SI = 13.4

- 640K RAM Expandable to 4 MB On-board
- 1.2 MB or 1.44 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- Real Time Clock/CMOS Memory w/Battery Back-up
- 230W Power Supply & Quality Case (full or baby size)
- 101 Key Enhanced Keyboard
- MGP Card
- 12" Mono Monitor

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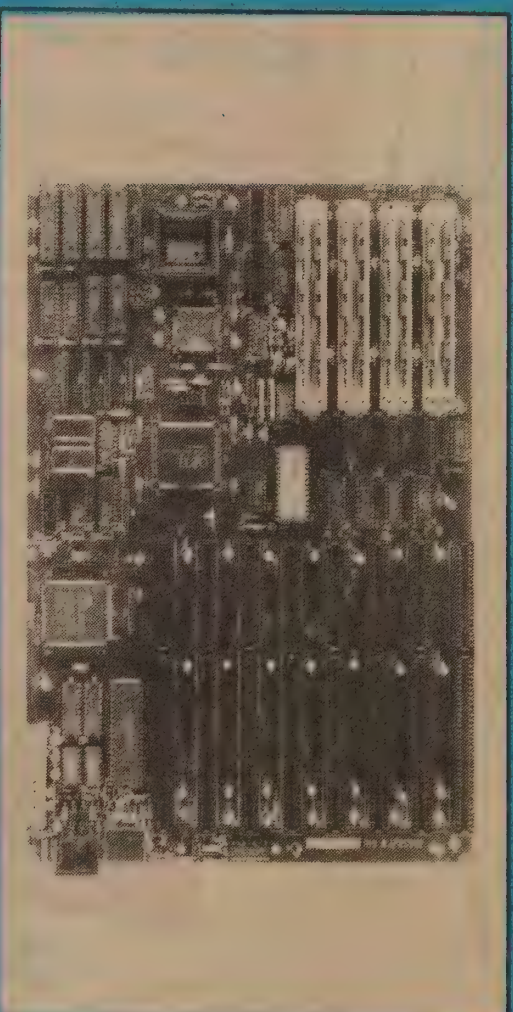
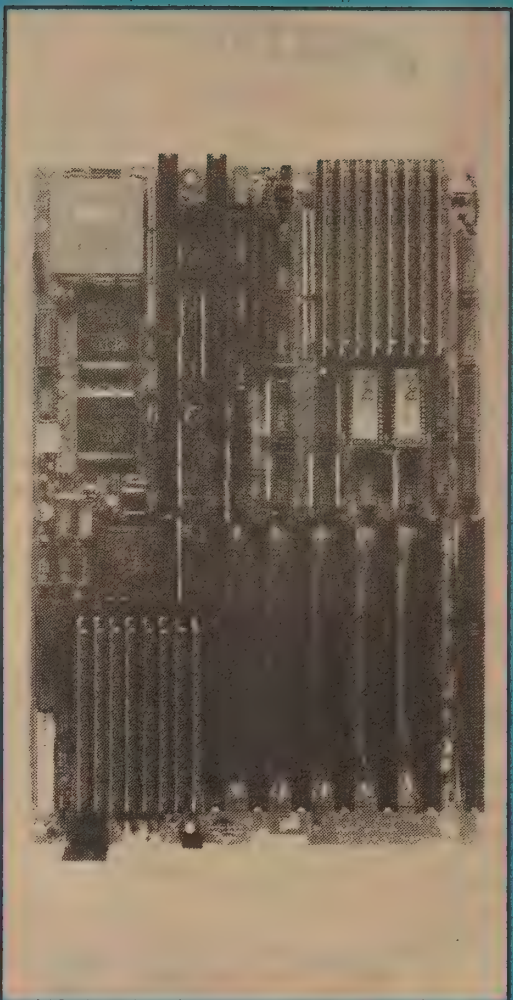
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# 486 Motherboards with optional plug-in 128K Cache memory

We offer the best Motherboard available in its class.  
And the best price performance available!

*\*Our Challenge: If it's out-performed by any other motherboard in it's class, provide us with your test results within 30 days and we will gladly refund your money!*



## Comparison between SVT 486/25 and that of leading 486

|                                    | SVT486   | Other 486 | % increase |
|------------------------------------|----------|-----------|------------|
| <b>Memory Performance Tests:</b>   |          |           |            |
| Extended Read                      | 1.05     | 3.19      | 203.81%    |
| Extended Write                     | 1.05     | 3.07      | 192.38%    |
| <b>Video Performance Tests:</b>    |          |           |            |
| Direct Screen Access               | 1.86     | 2.74      | 47.31%     |
| Teletype w/o scrolling             | 0.33     | 1.1       | 233.33%    |
| Teletype with scrolling            | 1.09     | 2.25      | 106.42%    |
| <b>System Test Results:</b>        |          |           |            |
| Database Appl. Simulation          | 368,028  | 9,261     | 3873.96%   |
| Word Processing Simulation         | 709,616  | 178,575   | 297.38%    |
| CAE/CAD Simulation                 | 804,282  | 255,406   | 214.90%    |
| Throughput Test                    | 692,088  | 208,668   | 231.67%    |
| <b>Video Display Test Results:</b> |          |           |            |
| Aggregate Video Test               | 4042,166 | 102,537   | 3842.15%   |

## Performance of the SVT 386SX

| SVT386SX | Features of SVT 386SX                    |
|----------|------------------------------------------|
| 1.32     | 25 MHz Speed                             |
| 1.21     | Shadow RAM + 256K Remapping              |
| 1.81     | Direct Map Posted Write Cache (16K-128K) |
| 0.5      | Supports 256K/1M/4M DRAM                 |
| 1.27     | Landmark (ver. 1.14) 36.9                |
| 385,713  | Powermeter (ver. 1.2) 5.4 MIPS           |
| 659,815  | Norton SI (ver. 4.0) 29.4                |
| 458,256  | 1/2/3/4 Bank/Interleave                  |
| 577,685  |                                          |
| 3183,653 |                                          |

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The Technology Bridge

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Call or fax for your nearest reseller.  
Dealer inquiries welcome.

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Fax (408) 982-0133



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**Operating Systems Supported:** MS-DOS, UNIX/XENIX,  
Novell Netware

**Leading Brands Sold:** Dell, Novell, Mountain Tapes

**Special Value Added:** Support contracts on networks,  
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#### BLACKSHIP COMPUTER SYSTEMS, INC.

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**Areas of Specialty:** CAD/CAM, Networking, Desktop  
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**In-House Expert:** Tim Morris, for hardware

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
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**Operating Systems Supported:** MS-DOS, OS/2

**Special Value Added:** Warranty, nationwide service

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**Other Locations:** Nationwide chain

**Areas of Specialty:** Desktop Publishing, Unix/AIX, Networking

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS,  
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**Leading Brands Sold:** AST, Sun, Autocad

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**Areas of Specialty:** New Product Testing and Support,  
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**Areas of Specialty:** Desktop Publishing, Financial

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** IBM, Toshiba, Epson

**Special Value Added:** Factory authorized service center for  
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LANs

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Omar Aqsani

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS

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**Special Value Added:** System configuration, system  
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### COMPARE!

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#### 386-33 MHz w/64K CACHE

• 100 MB HD

• 4 MB RAM

**\$2474**

#### 386-25 MHz

• 40 MB HD

• 1 MB RAM

**\$1695**

#### 386-16 MHz SX

• 40 MB HD

• 1 MB RAM

**\$1395**

#### 286-12 MHz

• 40 MB HD

• 1 MB RAM

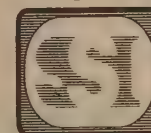
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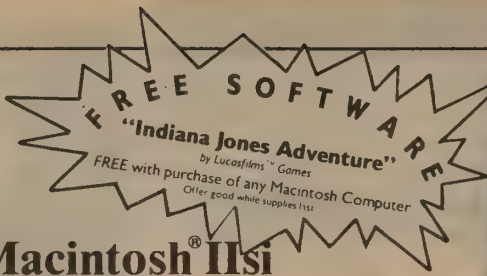




## Macintosh® IIsx

**2799.**

Monitor extra.  
Keyboard Extra

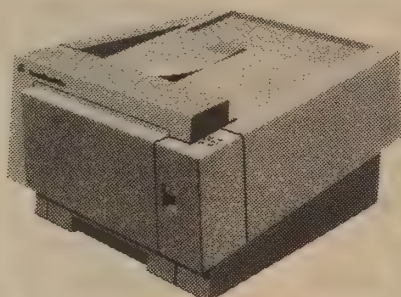


## Macintosh Portable

Macintosh portable has twice the performance of the Macintosh SE—comes w/1 MB RAM and a 40MB hard disk.



The Macintosh IIsx offers many of the features associated with the modular Macintosh family at an affordable price. This new Macintosh is an excellent choice for the business user who needs power, networking and growth. Comes with 2MB RAM, 40MB HDD, Microphone, MultiFinder and HyperCard.



## Personal LaserWriter®

Apple® Personal LaserWriter designed for the individual user. The personal LaserWriter NT offers full Postscript printing and a compact design.

**2349.**

**2999.**



## PREMIER

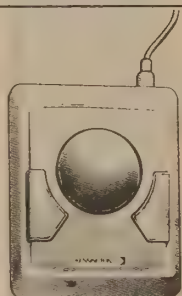
Quiet operation, fast and reliable Premier hard drives for the Macintosh. Match one with a Macintosh Plus for an affordable starter system for students.



## PREMIER Mac External Hard Drives

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|------------|-------------|
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| 50 MB..... | <b>499.</b> |
| 80 MB..... | <b>599.</b> |

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Conserve desktop space with the award winning Kensington Turbo mouse. ADB OR PLUS VERSION

FREE CUSTOM TRACK BALL W/ PURCHASE

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## Hayes

### Personal Modem 2400 Plus and Smartcom™ for the Mac

- Includes cables • Easy to install
- 2 year limited warranty

**149.**

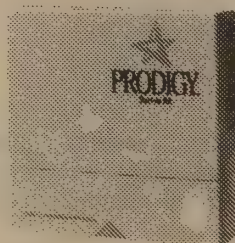
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Prodigy now offers more exciting on-line adventures and information than ever.

Updated Version  
LOWEST PRICE

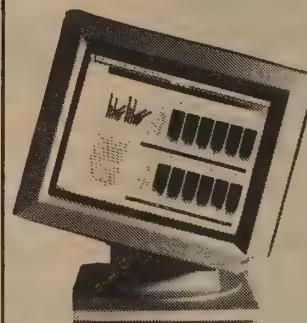
**29.**

- The SmartBundle: Easy, powerful, and affordable...
- The smart choice in software for new Macintosh® buyers!



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## Pivot Display For Macintosh

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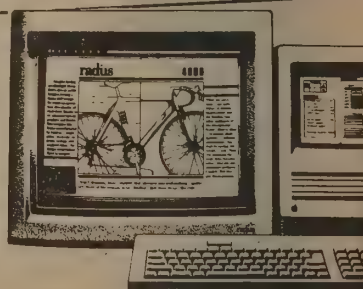
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## Radius Two-Page Monochrome Display

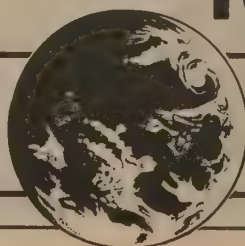
19" display with card for SE or Macintosh II.  
(CPU not included.)

**1295.**



21" display for the Macintosh

**1595**



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# WHOLE EARTH ACCESS UTER LE



Macintosh IIci

**4095.**

M5737 L4A comes with 4MB RAM and FDHD® drive. Keyboard, monitor extra.

Whether you crunch numbers, sort data, process words or design products, the IIci has all the features you've come to expect from Macintosh. What's more, its built-in video support lets you work with a variety of monitors to display a spectrum of colors or shades of gray—without adding a video card.

\* \$250 REBATE ON APPLE'S HIGH RESOLUTION RGB MONITOR WITH THE PURCHASE OF A MACINTOSH IIsi, IIci OR IIfx.

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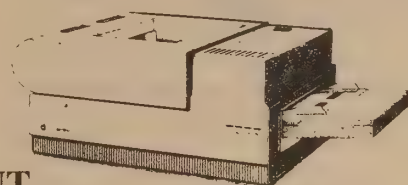
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**AppleColor®  
High  
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• High resolution color for the Macintosh modular family • 640x480 pixel resolution • 13" Trinitron CRT perfect for graphics intensive application.

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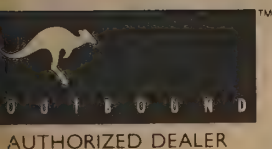


**Laserwriter II NT**

With 35 internal fonts, 2 MB RAM, and Postscript, the Laserwriter II NT yields professional quality documents quickly and easily.

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**Introducing the Outbound Laptop System**



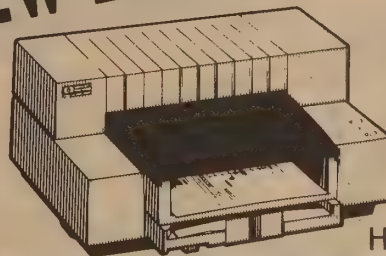
The Outbound™ Laptop integrates easily into any Macintosh office, and your busy schedule. Once Whole Earth Access transfers the ROM chips from your Mac Plus to the Outbound Laptop, you will have both the lightest Mac-compatible laptop available, and an enhanced Macintosh desktop system.

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Macintosh Plus I/F  
w/40 MB Hard Disk

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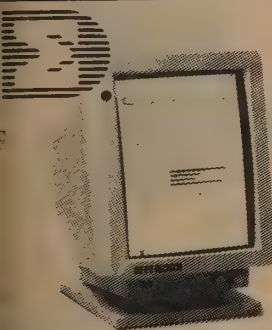
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**639.**



**PageView  
for Mac II, SE, SE/30,  
& for MS-DOS PC  
Machines**

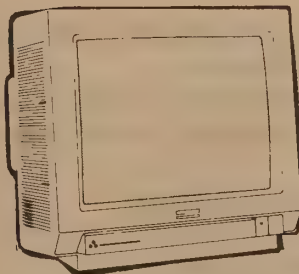
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• Resolution 72 dpi, 80 dpi,

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• Comes with appropriate adaptor card, cables,

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PageView for Mac IIsi ..... **749.**

**NEC**



**Mac/Sync**

• 640h x 480v resolution • .29dp, • 14" diagonally with cable and tilt swivel

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**SONY**

**Sony 1304 HG**

• Tilt & swivel • Analog cable • 1024h 768v • .25 dot pitch • VGA, MCGA, MacII & 8514A compatible



**669.**

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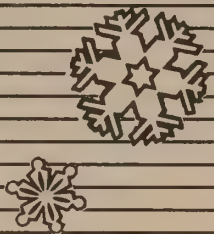
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**“HP Leads”  
the Revolution  
in Resolution”**

### PaintJet Color Graphics Printer

- High quality color charts & graphics
- PC or Macintosh compatible • Wide range of software support

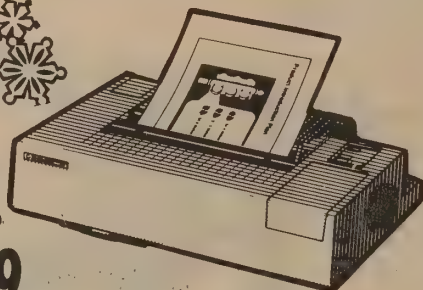
### Print Kit for Macintosh

HP color print kit for Apple Macintosh computers

\*(Interface required to hook Macintosh with PaintJet and PaintJet XL Printers)

**995.**

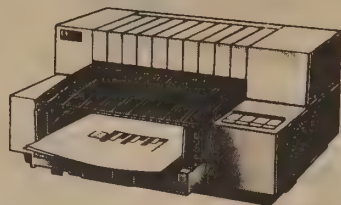
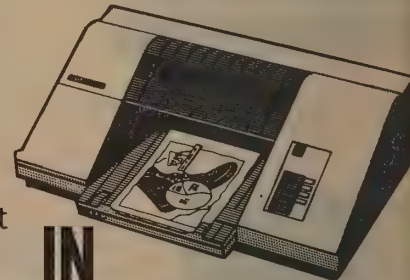
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### PaintJet XL Color Graphics Printer

- Enhanced PaintJet quality
- Faster print speed
- Presentation mode — for highest quality graphics on paper
- Transparency mode

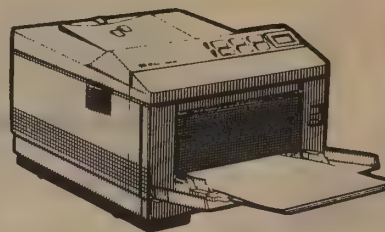
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### DeskJet 500 Printer

- Improved print quality • Added internal fonts • 3 year warranty • Water resistant ink cartridges

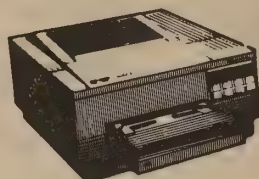
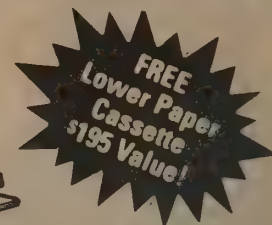
**489.**



### LaserJet IIP Printer

- Most affordable HP laserjet printer
- Publication quality output

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Hewlett Packard  
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**Now  
Available**

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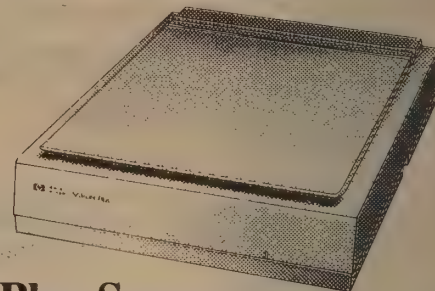
- Now Hewlett-Packard LaserJet printers are PC or Macintosh compatible
- Appletalk® compatibility with optional interface
- Dependable HP performance

**BEST  
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- 256 grey scale levels (8 bit) for high-resolution images • Wide range of contrast & intensity control
- PC or Macintosh compatible
- Price includes interface

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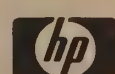


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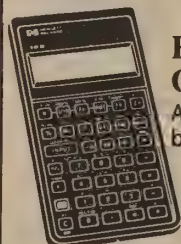


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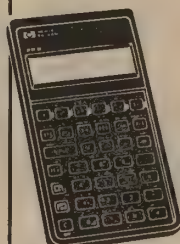


**HEWLETT  
PACKARD**



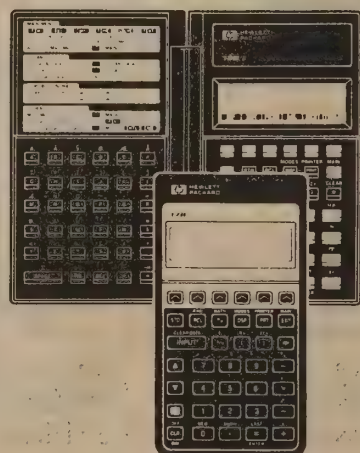
**HP 10B Business  
Calculator**  
All the essentials for  
business

**34<sup>95</sup>**



**HP 20S Scientific  
Calculator**  
A program library to  
solve your  
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problems

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**HP 17BII Financial  
Calculator ..... 99.**



**HEWLETT  
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*Take the lead with HP's best  
financial calculators.*

- Complete set of financial functions
- Menus and softkeys to guide you
- Algebraic or RPN entry

**Come see it today.**

HP calculators —  
the best for your success.

**HP 19BII Financial  
Calculator ..... 149.**

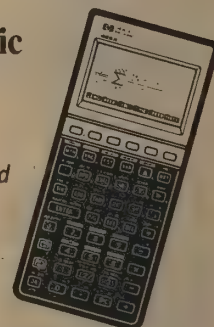
### HP 48SX Scientific Expandable Calculator

*Power-users — take the lead  
with the new HP 48SX!*

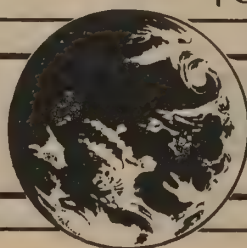
- Over 2100 built-in functions
- HP EquationWriter application
- Graphics integrated with calculus

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**325.**



# WHOLE EARTH ACCESS

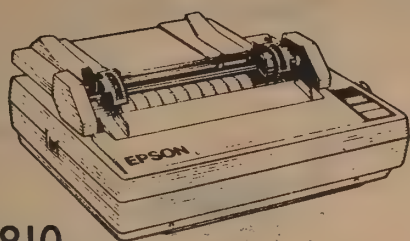
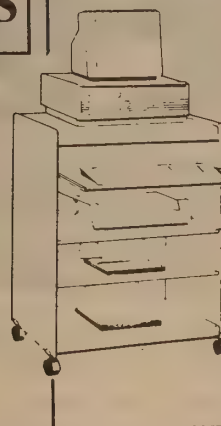


# EPSON®

## TWO YEAR WARRANTY ON ALL EPSON PRINTERS

### All-In-One Mobile Microcomputer Center

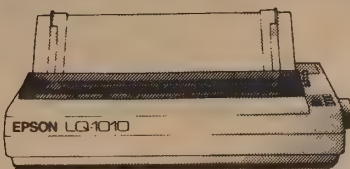
The answer to your storage problem. This space saver is designed to organize your entire microcomputer system – including your printer – in less than three square feet of floor space. Crafted from wood solids and matching veneers, this is a high quality solution for your computer furniture needs.



#### LX-810

- 9 pin • SmartPark™ paper handling
- 200 cps super draft • 30 cps NLQ
- High resolution graphics

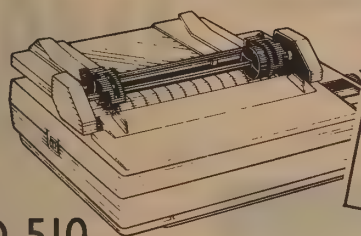
**179.**



#### LQ-1010

- 180 CPS draft, 60 CPS letter quality
- 24 pin, 360x360 dpi graphics
- SmartPark™ and SelectType • Wide carriage

**429.**

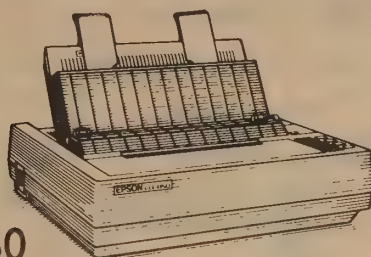


FREE  
MULTI-MODE  
FONT WITH  
PURCHASE OF  
LQ-510

#### LQ-510

- Featuring SmartPark™ paper handling
- 180 CPS draft • 56 CPS letter quality • 2 resident letter quality fonts

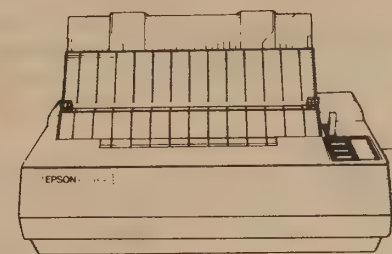
**285.**



#### LQ-860

- Epson's newest letter quality color printer • 300 cps draft
- 98 cps NLQ

**IN STOCK**



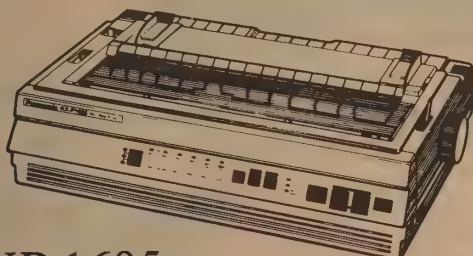
#### FX-850

- 9 pin dot matrix
- 264 draft 54 NLQ • Push tractor paper park for single sheet feed

**369.**

## Panasonic

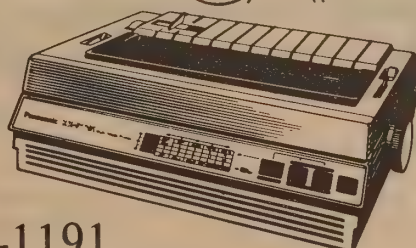
Office Automation



#### KXP-1695

- 9 pin • EZ set control panel • 330 cps draft • 66 cps NLQ • 8 resident fonts • 16.5" wide carriage • push/pull tractor • Rear, bottom and front paper feed

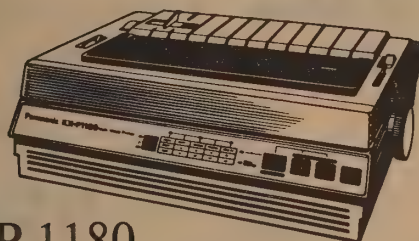
**395.**



#### KXP-1191

- 9 pin • EZ set control panel
- 240 cps draft
- 48 cps NLQ
- 6 resident fonts
- push/pull tractor

**259.**



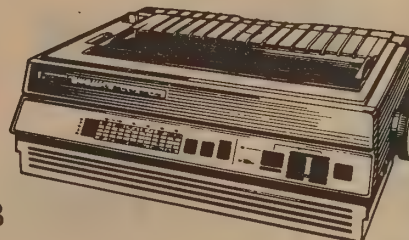
#### KXP-1180

- 9 pin • EZ set control panel • 192 cps draft • 38 NLQ • 6 resident fonts
- push/pull tractor
- 11.7" carriage

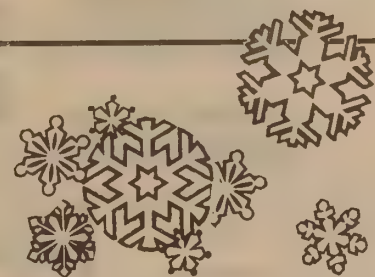
**149.**

#### KXP-1124

- 24 pin • EZ set control panel • 192 cps draft • 63 cps NLQ • 7 resident fonts
- 11.7" wide carriage
- push/pull tractor
- 360 x 360 dpi graphics



**AVAILABLE**



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### SAN FRANCISCO

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### SAN MATEO

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578-9200

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3550 Stevens Creek Blvd.  
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Whole Earth Access is proud to introduce the new IBM PS/1 to the Bay Area. This is the ultimate home computer by the people who defined personal computing.

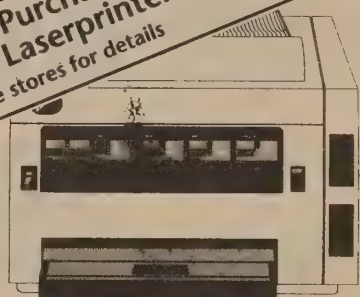
Right out of the box you get a high resolution VGA Photo Graphic™ display, an IBM Selectric Touch keyboard, a mouse and a built-in modem. Plus you get IBM DOS and Microsoft Works®,

the best selling integrated software package with word processing, spreadsheet, communications, and database programs. You also get, at no extra charge, 3 months free of the Prodigy® service for home shopping, banking, travel arrangements and more.

This is an easy to use computer at an affordable price. Come see it in action today at Whole Earth Access.

**PS/1'S NOW AVAILABLE IN ALL STORES**

FREE SOFTWARE  
with Purchase of  
IBM Laserprinter  
See stores for details



### IBM Laser Printer 4019001 10PPM

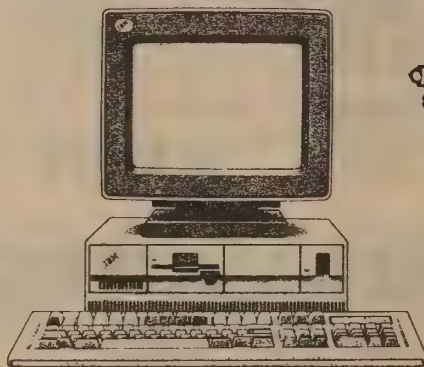
- 10 pages per minute
- HP comp.

4019 IBM  
All Stores

Laser Printer E

**954.\***

**1445.\***

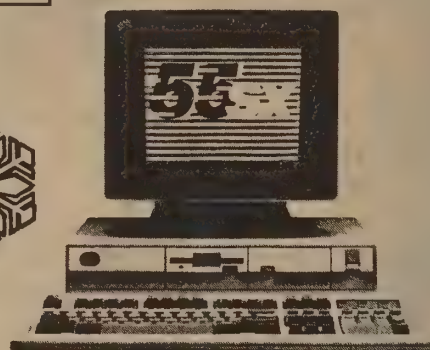


### IBM PS/2 50Z Micro Channel™ Model 30

- 80286 • 30MB hard drive • 1.44MB floppy
- Built-in VGA

Monitor extra

**1699.\***



### IBM PS/2 55 Model 30

- 80386SX 16 Mhz processor • VGA on board
- 2 MB RAM expandable to 16 MB • 30 MB hard drive

Monitor extra

**2049.\***

\*After manufacturer's rebate. Systems must be purchased with IBM DOS, OS/2 or AIX.

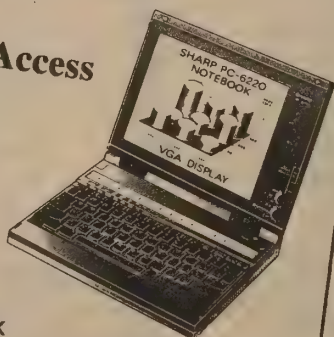
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PS/2's Available Only in San Jose and Berkeley

**SHARP**

New at  
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- Only 4.4 lbs.
- 12Mhz 80286
- VGA paperwhite LCD display
- 20MB hard drive
- 1MB RAM
- DOS 4.01 and laplink in ROM



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Come See This Amazing Little Computer



**COMPAQ**

### COMPAQ DESKPRO 386s

Built around the revolutionary 80386SX processor, the DP386S delivers 386 performance at a non-386 price.

**1895.**

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NOW WITH 2MB RAM



### Compaq LTE/286 Model 40

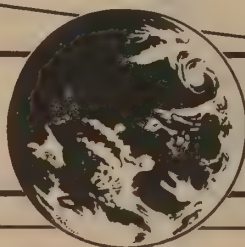
- 8.5" x 11" & only 7 lbs.
- 1.44 MB floppy drive 40MB
- 40MB hard drive

**2849.**

LTE/286 Model 20 **2595.**

LTE Model 20 **1849.**

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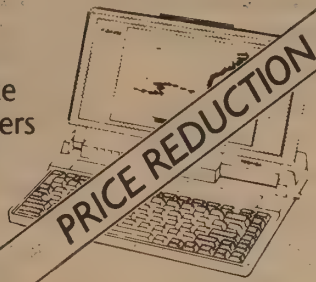


**WHOLE EARTH ACCESS**

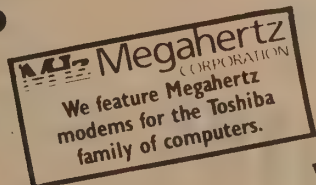


## Toshiba T1000SE

High performance portable computers for today's executive on the move.

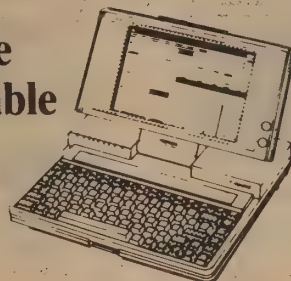


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## The Affordable T1000XE Portable

Toshiba's smallest, lightest Notebook PC with a hard disk drive.



## Power Packed T1200XE

Carry 286 hard disk power in your briefcase!



# 2149.

## AFFORDABLY PRICED NOTEBOOKS

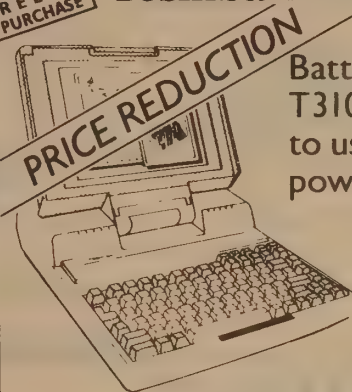
# TOSHIBA



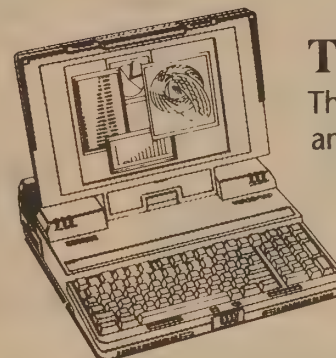
# TOSHIBA

## Toshiba T3100SX/40

Battery-operated T3100SX Freedom to use 386SX power anywhere.



# 3819.

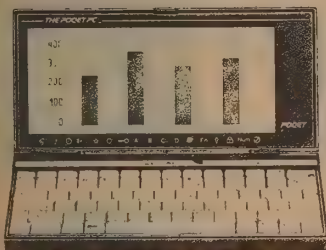


## T5200/100

The ultimate in power and portability.

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# POQET™



## Come See the New Poquet Computer

**The Poquet PC™**  
Everything you need, in a size you've always wished for.

- 2-3 months of normal use on two AA alkaline batteries • MS-DOS 3.3 runs your favorite PC software • Dimensions: 8.8" x 4.2" x 1.0" • QWERT-style keyboard • 80-character X25-line screen • LCD display with monochrome graphics • Built-in productivity tools

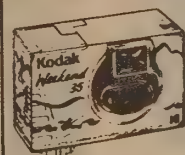
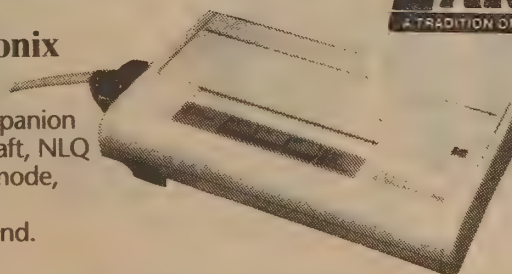
# 1549.

# Kodak

## Kodak Diconix 150 Plus

The laptop companion that prints in draft, NLQ and/or quality mode, designed with portability in mind.

# 379.



Try A Portable  
**KODAK DICONIX Printer**  
In-Store and Get a Free  
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Camera.

Offer Expires December 31, 1990

# TARGUS

We feature the Targus cases for the Toshiba portables and the Macintosh portables. Superior construction and materials make the Targus cases a best buy.



## Apricorn Memory

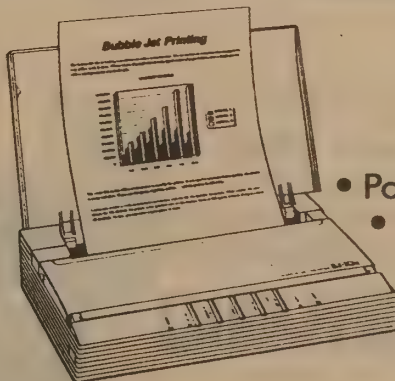
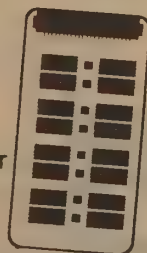
- Lifetime warranty • Available for all Toshiba portables • This month's specials

# 299.

2MB  
T1200XE

2MB  
T1000SE/XE

# 449.



# Canon

BUBBLE JET PRINTER

# BJ-10e

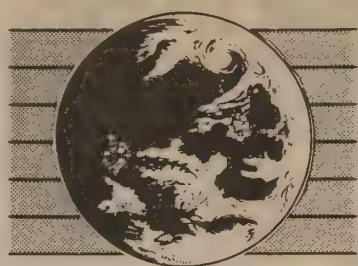
- Portable 300 dpi printer
- Optional sheet feed

# 399.

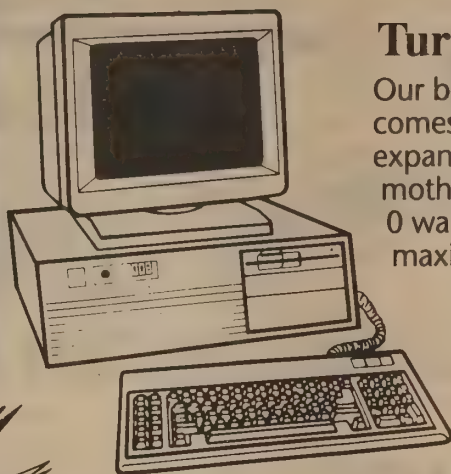
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COMPUTER SYSTEMS**



### Turbo 286 12

Our best selling Turbo 286 comes w/512K of memory expandable to 4MB on the motherboard. 12 Mhz at 0 wait states means maximum speed.

**499.**

Monitor, display card extra

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"Night Shift" by Lucasfilms™ Games FREE with Purchase of a Complete™ VGA Computer System. Offer good while supply lasts. \*CPU and Monitor

Ad expires 12/15/90 Limited to stock n hand. Errors subject to correction. Cash, check or Whole Earth Instant Credit\* for all computer ad prices. (\*Subject to credit approval.)

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### 386/20

- True 20 Mhz 386 motherboard
- 1:1 HDC • 1.2 FD • 101 keyboard • 1MB RAM



### 386/33mhz - 40 MB

- 1MB RAM • 1.2MB floppy drive
- 1:1 hard drive controller • 64k cache
- 101 keyboard • 40MB Hard Drive.

### WEA S486-25 Standard

- 4MB RAM upgradable to 8MB on motherboard; 16MB w/32 bit memory card
- I/O, 1.2MB FD, 101 keyboard
- IDE controller
- Desktop case
- AMI BIOS
- 64K RAM cache, upgradable to 256K
- 1-32/8 bit slot
- 6-16 bit slot
- 1-3 bit slot
- Weitek math co-processor socket

**2595.**

**1695.**

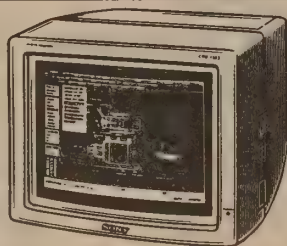
## VIDEO

### SONY

#### Sony 1320 VGA

- VGA color monitor
- Analog input
- .25mm aperture grid

**499.**

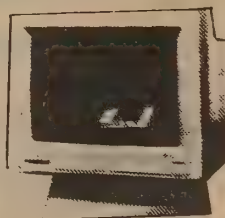


### HYUNDAI

#### HCM-402C

- 14" VGA color
- .31 dot pitch
- Includes tilt & swivel base

**BEST PRICE**



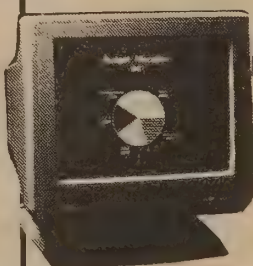
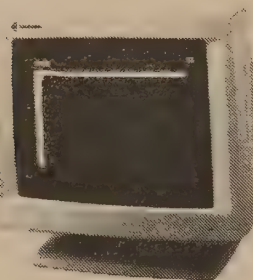
### SAMSUNG

#### MZ4575

#### 14" Monitor

- Flat screen • Black and white only • 122 col, 640h x 720v with tilt and swivel

**119.**



#### Hyundai HMM-1201A 12" Monitor

- 12" Amber flat screen 720h x 350v with tilt and swivel

**BEST PRICE**



### SIGMA DESIGNS

#### Sigma VGA Legend

- 1024 x 768 • 16 colors
- Interlaced or non-interlaced
- No switchers or jumpers
- 512K video memory upgradable to 1MB • Exceeds European Ergonomic standards for flicker-free displays
- Upgrade kits in stock (VGA CARD ONLY)



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#### VIDEO CARDS

|                                 |     |
|---------------------------------|-----|
| EVERGRAPHICS PLUS MONO/GRAPHICS | 59. |
| PARADISE BASIC VGA              | 99. |

#### MATH CO-PROCESSORS

|                                                     |      |
|-----------------------------------------------------|------|
| 80387-16                                            | 349. |
| 80387-16SX (16MHZ "SX" SYSTEM ONLY)                 | 329. |
| 80387-20                                            | 379. |
| 80387-25                                            | 469. |
| 80387-33                                            | 589. |
| 80C287A-12.5 (FOR CMOS TYPE LAPTOP 12MHZ COMPUTERS) | 289. |
| BOX287XL (8-29MHZ VARIABLE SPEED)                   | 259. |
| BOX287XLT (FOR COMPAQ LTE286 ONLY)                  | 259. |

#### HARD DRIVES

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| SEAGATE ST 251-1 40MB 28MS         | 329. |
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| MICROPOLIS 1654-7 150MB 16MS       | 899. |
| TOSHIBA MK134FA 65MB 28MS          | 399. |
| TOSHIBA MK72PCR 110MB 28MS         | 699. |
| QUANTUM PRO 40S (SCSI) 42MB 19MS   | 399. |
| QUANTUM PRO 80S (SCSI) 84MB 19MS   | 599. |
| QUANTUM PRO 105S (SCSI) 105MB 19MS | 729. |

### NEC

#### MultiSync 3D

The NEC 3D is one of the best multiscan monitors made. 1024x768 resolution means you can use sophisticated Super VGA software and hardware with this screen.

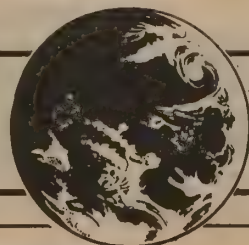
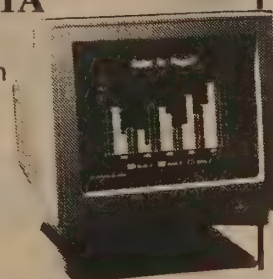
**629.**



#### Hyundai HMM-1401A 14" Monitor

- 14" Amber flat screen 720h x 350v with tilt and swivel

**BEST PRICE**

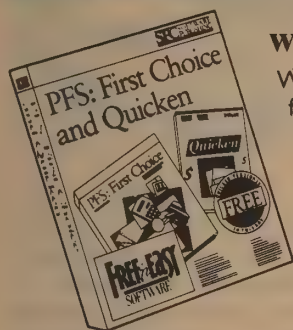


# WHOLE EARTH ACCESS



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## First Choice w/Quicken FREE

With PFS First Choice you'll have five versatile business applications in one program. Add Quicken and you'll have hassle-free check writing, tax record keeping and reporting all at no extra cost.

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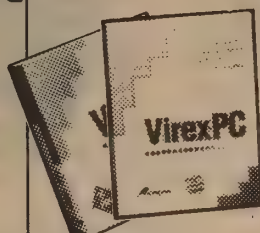
**Microsoft**



Microsoft Windows **99.**

**Microcom**

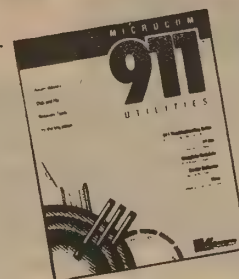
**VIREX**  
Virus protection for Macintosh and IBM compatibles.



Virex ..... **69.**  
Virex-PC ..... **89.**

**911 UTILITIES**

Award Winning File and Disk Recovery Tools.

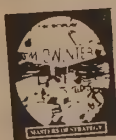


**129.**

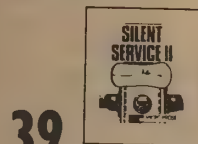
**MICRO PROSE**



**39.**



**39.**



**39.**

IBM Software

**Broderbund**

**39.**



**39.**

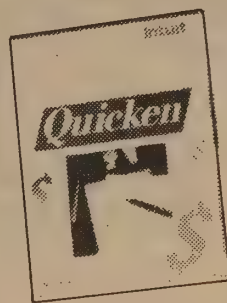
MAC Software

**Intuit**

Breeze through financial chores. Quicken takes the drudgery out of routine finances.

**38.\***

Macintosh version  
\*After \$5.00 rebate



**WordPerfect CORPORATION**

**Word Perfect 5.1**

Function keys, pull down menus and mouse support.

**249.**



**CLARIS**

Sort, calculate, automate, share, secure, relate, report, color, and publish fast.

**FileMaker Pro**

INTRODUCTION PRICE **199.**

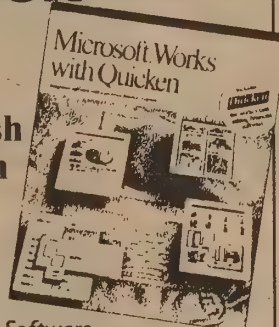
MAC Software

**Microsoft**

Microsoft Works for Macintosh with Quicken

**199.**

Mac Software



**TYPIST**

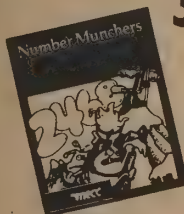
The Ultimate Typing Machine™ now fits in the palm of your hand.

**549.**

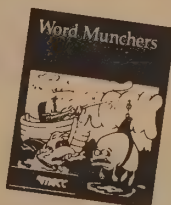
For Macintosh

**CAERE**

**MECC**  
For the love of learning.



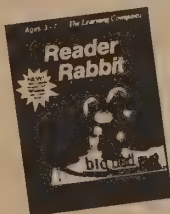
**39.**



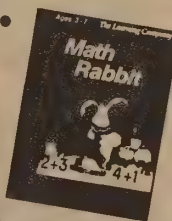
**39.**

Mac Software

**The Learning Company**



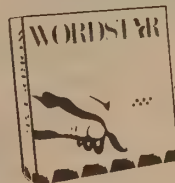
**49.**



**49.**

Mac Software

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- Graphics Editor
- Telecommunications
- Prints color graphics

**249.**

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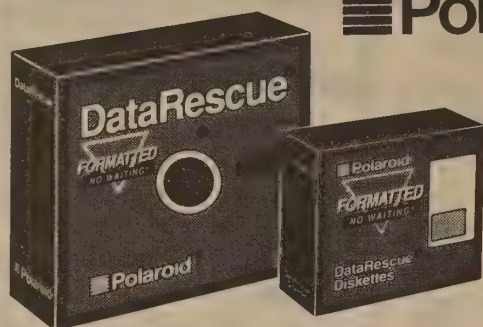
Links ..... **49.**  
Loom ..... **49.**  
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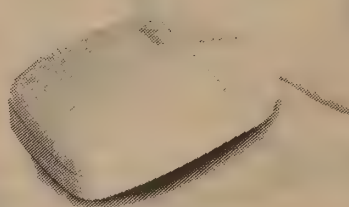
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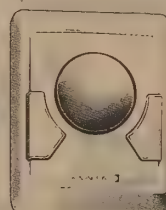


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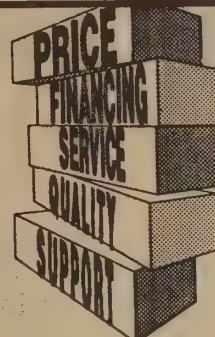
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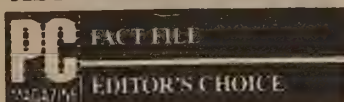
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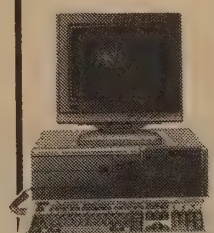
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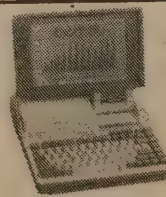
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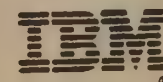


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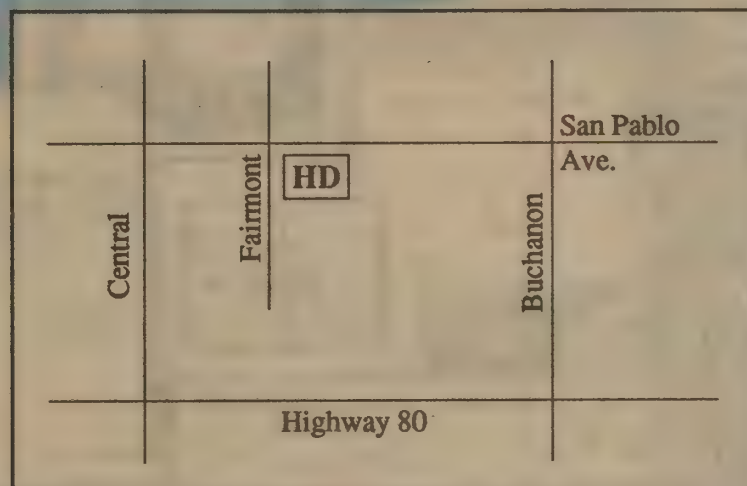


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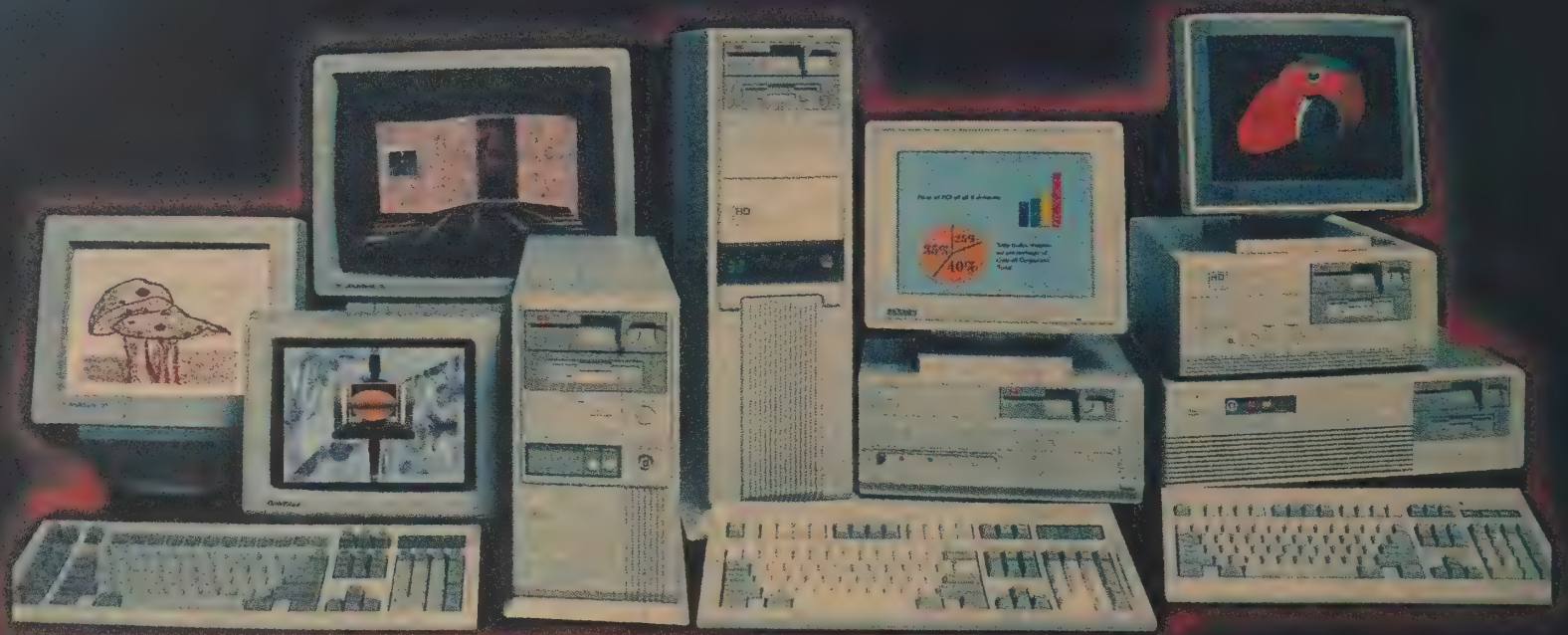
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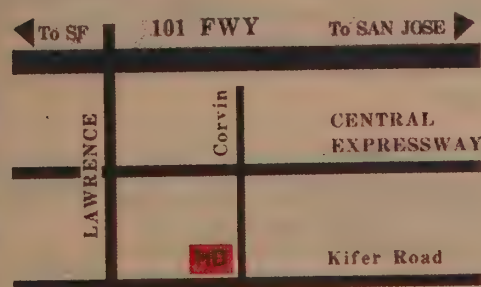
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Fax: (916) 483-4826

**El Cerrito Branch: (415) 528-0753**

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Fax: (415) 528-0757



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# **LASER FILL**

Store Manager: Mike Kucera  
67 Tina St.  
West Pittsburg, CA 94565  
(415)458-9110

**Areas of Specialty:** Canon PC Copier and Laser, Printer supplies, service and sales

**In-House Expert:** Mike Kucera

**Leading Brands Sold:** Canon, Hewlett-Packard, Apple

**Special Value Added:** Guaranteed refills for most popular lasers and PC Copier.

# **LASER LIFE TECHNOLOGIES**

Store Manager: Gregg Williams  
6711 Sierra Ct. #C  
Dublin, CA 94568  
(415)829-9215

**Areas of Specialty:** Laser Imaging Systems, Cartridge Recycling, Typesetting

**Operating Systems Supported:** ALL

**Leading Brands Sold:** QMS, GCC Technologies, NewGen Systems

**Special Value Added:** Complete technical support. Authorized factory repair center for above manufacturers.

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Store Manager: Dominic  
34487 Egerton Place  
Fremont, CA 94555  
(415)796-7186

**Other Locations:** (415)797-5054

**Areas of Specialty:** In-House Expert:

Voice Mail, FAX, Personal Dominic Lee

Computer, Hardware/Software Alex Haydok

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**Operating Systems Supported:** MS-DOS, Mac OS

**Leading Brands Sold:** Panasonic, Microsoft, The Complete PC

**Special Value Added:** Business solutions, personal consultation.

# **M. W. COMPUTER**

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Fremont, CA 94538  
(415)659-8781

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

# **M. W. COMPUTER**

Store Manager: Jack Li  
46713 Fremont Blvd.  
Fremont, CA 94538  
(415)659-8782

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** 386, 286, 486

# **MAC METHODS**

Store Manager: John S. Goodenough  
160 Santa Rita Dr.  
Walnut Creek, CA 94596  
(415)938-0525

**Areas of Specialty:** In-House Expert:

FileMaker John S Goodenough

PageMaker Maryln Collin

Word 4.0 Maryln Collin

**Operating Systems Supported:** Mac OS

**Leading Brands Sold:** Apple, Everex, Relax

**Special Value Added:** Tech support, upgrades, sales, installation, LAN-training and installation.

# **MAC OUTLET**

Store Manager: Steve Glovin  
48860 Milmont Dr.  
Fremont, CA 94537  
(415)623-8890

**Areas of Specialty:** Hardware, Video, Multimedia

**Operating Systems Supported:** Mac OS

**Leading Brands Sold:** RasterOps Samsung Macromind  
**Special Value Added:** One year warranty, one year over the counter exchange, support, delivery

# **MANEX CO.**

Store Manager: Rafael Jimenez  
4356 Coliseum Way  
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**Areas of Specialty:** Custom Flight Cases

**In-House Expert:** Rafael Jimenez and Gary Smith

# **MCTEK SYSTEMS, INC.**

Store Manager: Charles Lee  
1521 San Pablo Ave.  
Berkeley, CA 94701  
(415)525-5129

**Areas of Specialty:** Networking, dBase, Accounting

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** IBM, Zenith, Compaq

**Special Value Added:** Repairs, extended warranty, training

# **MICROAGE OF BERKELEY**

Store Manager: Thom Stark  
3165 Adeline St.  
Berkeley, CA 94703  
(415)841-5323

**Areas of Specialty:** Novell Networks, Medical Office Management (Unix), CAD

**Operating Systems Supported:** MS-DOS, OS/2X, UNIX/XENIX

**Special Value Added:** On-site service, training, support, warranties.

# **MICROAGE OF FREMONT**

Store Manager: Mike Kushner  
41101 Albrae St.  
Fremont, CA 94538  
(415)2226-0881

**Other Locations:** MicroAge of Sacramento, 3105 Fite Cir, #107, Sacramento, CA, 95827 (916)363-1234

**Areas of Specialty:** In-House Expert:

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Accounting Mike Kushner

Hardware All

**Operating Systems Supported:** MS-DOS, OS/2, CP/M, Mac OS, TOS(Atari), UNIX/XENIX

**Leading Brands Sold:** IBM, Compaq, Hewlett-Packard

**Special Value Added:** On-site service contract available.

Factory trained service techs and sales people. We offer extended warranties, training class on Lotus, WordPerfect, PageMaker, DOS, Novell network Administor. Return, trade in, leasing policies.

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Store Manager: Bill Lewis  
5690 Stoneridge Dr. Hacienda Plaza  
Pleasanton, CA 94588  
(415)463-2263

**Areas of Specialty:** Hardware, Networking, Accounting

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS, UNIX/XENIX

**Leading Brands Sold:** IBM, Compaq, Epson

**Special Value Added:** Extended warranty. On-site service. Return policy.

# **MICROCOM COMPUTERS**

Store Manager: Peter Wagner  
48890 Milmont Dr., Ste. 103D  
Fremont, CA 94537  
(415)623-3628  
1(800)248-3398

**Other Locations:** 3650 18th St., San Francisco, CA 94110

**Areas of Specialty:** In-House Expert:

CAD/CAM Ernest Lau

Graphics, Desktop Publishing Rex Wong

Networking, LAN Rex Wong

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** Microcom, Conner, Microsoft

# **MICROLINE COMPUTERS**

Store Manager: Ben  
46757 Fremont Blvd.  
Fremont, CA 94538  
(415)770-1900

**Areas of Specialty:** Hardware, Networking, Components

**Operating Systems Supported:** MS-DOS, OS/2

**Leading Brands Sold:** Maxtor, Conner, Panasonic

**Special Value Added:** One year warranty on parts and labor. Service center, leasing.

# **MICRO STRATEGIES SERVICE**

Store Manager: Simrin Khalsa  
1240 Powell St., Ste. F  
Emeryville, CA 94608  
(415)655-4466

**Areas of Specialty:** In-House Expert:

OKIDATA Simrin Khalsa

Zenith Zoey Bloom

Novell Zoey Bloom

**Operating Systems Supported:** MS-DOS, Mac OS

**Special Value Added:** We are a service company that also sells. On site or carry in service.

# **MICROTECH INTERNATIONAL**

Store Manager: Nadeem Zafar  
5865 Doyle St., Ste.114  
Emeryville, CA 94608  
(415)658-1433

**Areas of Specialty:** In-House Expert:

Networking Nadeem Zafar

Desktop Publishing Randy Calish

CAD/CAM Randy Calish

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, Novell

**Leading Brands Sold:** Toshiba, Everex, Standard Technologies

**Special Value Added:** On-site service available, service center for Toshiba, Packard Bell, Standard Technologies, Sanyo, and other major brands. Full on-site training and end-user support in software available. Also offer extended warranties.

# **MICROWORLD**

Store Manager: Bill Yeager  
1514 University  
Berkeley, CA 94702  
(415)841-9176

**Areas of Specialty:** Desktop Publishing, Professional Typesetting, Raster Graphics

**Operating Systems Supported:** MS-DOS, TOS(Atari)

**Leading Brands Sold:** AML, Easy Data, Atari

**Special Value Added:** Full Training

# **MONARCH COMPUTERS**

Store Manager: Sunil Ajmani  
863 C San Pablo Ave.  
Albany, CA 94706  
(415)526-7741

**Areas of Specialty:** Networking

**In-House Expert:** Emile

**Operating Systems Supported:** MS-DOS, Mac OS

**Leading Brands Sold:** AST, Mylex, Hewlett-Packard

**Special Value Added:** Repairs, warranty service, training, support.

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Fremont, CA 94538  
(415)623-7729

**Areas of Specialty:** Computer Hardware C486, 386, 286 IBM compatible machines

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- 2 Serial, 1 Parallel, Game Port
- 101 Keytronics Keyboard
- Case w/Power Supply

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## 386-25 MHz SYSTEM

### LANDMARK = 31

- Intel 25 MHz CPU
- 1 MB RAM on Board
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB or 1.44 MB Floppy Drive
- 2 Serial, 1 Parallel, Game Port
- 101 Keytronics Keyboard
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- Intel 25 MHz CPU, 64 Cache
- 1 MB exp to 8 MB on Board
- Hard/Floppy Controller (1:1)
- 2 Serial, 1 Parallel, Game Port
- 101 Keytronics Keyboard
- Teac 1.2 MB or 1.44 MB Floppy Drive
- Case w/Power Supply

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## 386-SX 16 MHz SYSTEM

### LANDMARK = 20

- Intel 386-SX CPU
- 1 MB RAM on Board
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB Floppy
- 2 Serial, 1 Parallel, Game Port
- 101 Keytronics Keyboard
- Case w/Power Supply

**\$649**

## 286-12 MHz SYSTEM

### LANDMARK = 16

- 1 MB RAM
- 1.2 MB or 1.44 MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- 101 Keytronics Keyboard
- Case w/Power Supply
- 2 Serial, 1 Parallel, Game Port

**\$389**

## MOTHERBOARD

|                               |     |
|-------------------------------|-----|
| DTK 8088 10 MHz               | 68  |
| 286 6/12 MHz 0 Wait           | 110 |
| 286 8/16 MHz 0 Wait           | 170 |
| 286 8/20 MHz 0 Wait           | 340 |
| 386SX-16 MHz 0 Wait           | 370 |
| 386-25 MHz 0 Wait (w. CPU)    | 600 |
| 386-25 MHz 64K Cache (w. CPU) | 710 |
| 386-33 MHz 64K Cache (w. CPU) | 760 |

## HARD DRIVE

|                                |     |
|--------------------------------|-----|
| SEAGATE                        |     |
| ST-225 20 MB 65ms              | 190 |
| ST-251-1 40 MB 28ms            | 275 |
| ST-4097 80 MB 28ms             | 555 |
| CONNER                         |     |
| CP-3044 IDE 40 MB              | 335 |
| CP-3104 IDE 100 MB             | 490 |
| CP-3204 IDE 200 MB             | 790 |
| CDC                            |     |
| 1162N SCSI 143 MB 15ms         | 745 |
| 1126N SCSI 105 MB 15ms         | 678 |
| TOSHIBA                        |     |
| MK134FA 44/65 MB 24ms          | 360 |
| MK234FA IDE 102 MB 24ms        | 589 |
| NEC ESDI 150 MB 18ms           | 750 |
| WESTERN DIGITAL IDE 40 MB 28ms | 255 |

## PRINTER

|                         |      |
|-------------------------|------|
| Panasonic KX-P 1180     | 165  |
| Panasonic KX-P 1124     | 279  |
| Panasonic KX-P 1624     | 395  |
| Panasonic Laser Printer | 1295 |
| Star NX 1000 II         | 165  |

## MONITOR

|                              |     |
|------------------------------|-----|
| Mono. 12" Monitor            | 70  |
| Mono. 14" Flat Screen        | 95  |
| Relisys 14" VGA              | 310 |
| Relisys 14" Multisync        | 425 |
| Super VGA 14" (1024x768) .31 | 349 |
| Super VGA 14" (1024x768) .28 | 359 |
| NEC Multisync 2A             | 470 |
| NEC Multisync 3D             | 615 |

## VIDEO CARD

|                                   |         |
|-----------------------------------|---------|
| VGA card (16 bit 800x600)         | 80      |
| VGA card (16 bit 1024x768)        | 85      |
| ATI wonder 256K/512K              | 174/194 |
| Genoa Super VGA 6300/6400         | 164/184 |
| Mono Graphic Card w. Printer Port | 20      |

## ADD-ON CARD

|                                     |     |
|-------------------------------------|-----|
| 1:1 Interleave FD/HD RLL Controller | 79  |
| 1:1 Interleave FD/HD MFM Controller | 69  |
| DTC 7280 MFM Contrl (1:1 inter)     | 85  |
| DTC 7287 RLL Contrl (1:1 inter)     | 95  |
| DTC 6280 ESDI Contrl (1:1 inter)    | 140 |
| DTC 3280D SCSI Contrl (1:1 inter)   | 149 |
| IDE Dual Controller                 | 25  |
| 1.2/1.44 Floppy Controller          | 17  |
| Four Floppy Controller              | 45  |
| XT Hard Disk Controller             | 48  |
| AT/IO (2S/1P/1G)                    | 25  |
| RS-232 Card                         | 17  |
| Printer Card                        | 18  |
| Game Card                           | 16  |
| Clock Card                          | 16  |

## KEYBOARD

|                   |    |
|-------------------|----|
| Keytronic 101 Key | 47 |
| Monterey 101 Key  | 47 |
| 101 Key AT/XT     | 38 |

## CASE

|                                     |       |
|-------------------------------------|-------|
| Mini Vertical w/Power Supply 200W   | 89    |
| Medium Vertical w/Power Supply 200W | 119   |
| Big Vertical w/Power Supply 250W    | 159   |
| Baby AT Case w/Power Supply 200W    | 89    |
| AT Deluxe Case                      | 52    |
| Power Supply AT 230w/XT 150w        | 49/36 |

## FLOPPY DRIVE

|                   |       |
|-------------------|-------|
| FUJITSU 360K/1.2M | 57/67 |
| TEAC 1.2M/1.44M   | 68/68 |

## MISCELLANEOUS

|                           |         |
|---------------------------|---------|
| 287-8/10                  | 185/210 |
| 387SX-16                  | 315     |
| 387-20/25                 | 355/445 |
| 387-33                    | Call    |
| Memory Chips              | Call    |
| Logitech Mouse            | 65      |
| Hi-Res Mouse              | 38      |
| DFI Scanner               | 175     |
| 9600 Fax Modem            | 249     |
| 2400 Internal Modem       | 79      |
| MS DOS 3.3/4.01           | 65/65   |
| Printer Cable 6/9'        | 9/19    |
| Keyboard Extension Cable  | 6       |
| Monitor Extension Cable   | 6       |
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| Power Center (w. Surge)   | 29      |

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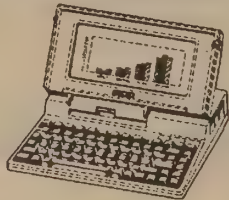


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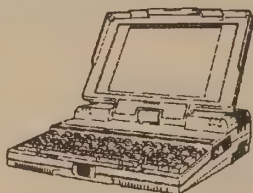
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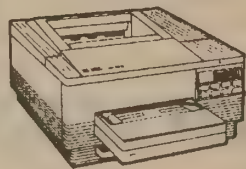


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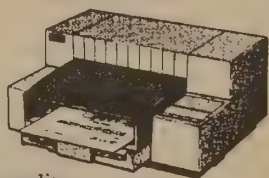
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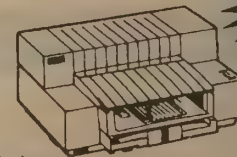
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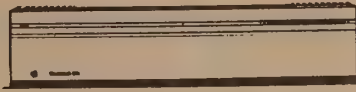
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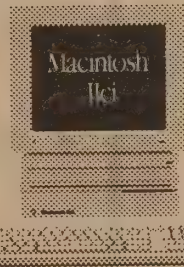
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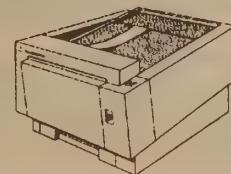
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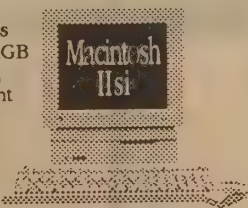
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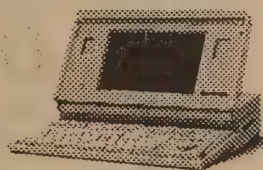
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# THE Macintosh® SuperStore

COMPUTER SELECTION

## The Radius Pivot™ Display



Only  
\$1249

The Pivot™ Display changes orientation to match the format of your work. Use the full-page orientation for word-processing and switch to the landscape mode to work on your spreadsheets. 4 levels of gray standard, upgradeable to 16-levels. Available for the SE30 or the Macintosh II family. Video card included in above price

## Radius TPD

Only  
\$1345

\*including Video Card



The Radius TPD has one of the largest active screen areas of any 19" monitor and at 1,152 x 882 pixels at 82dpi, it can display more data than some 21-inch monitors.

radius™

## QMS

### ColorScript 100 Model 10

The ColorScript 100 uses a 68020

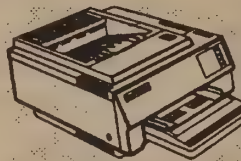
processor to produce the highest quality color graphics. This unit is the most inexpensive color printer on the market today! If you need color output, this is the unit for you!



*Call for Pricing!*

### QMS PS-810

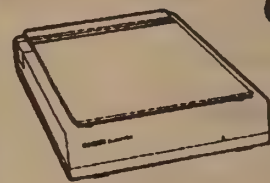
The PS-810 is a true Adobe Postscript™ printer operating at 16Mhz, using the industry standard Canon engine. At 8 pages per minute, it's also one of the faster printers on the market!



## Abaton Scan 300

Only  
\$1495

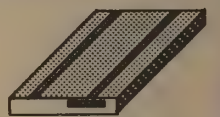
\*incl. interface



Abaton's 300GS scanner is a high-quality gray-scale scanner. With the quality of far more expensive units and a price to fit in your budget, this is the unit for you!

## InterFax 24/96 Modem

\$399



The InterFax 24/96 modem is a 2400 baud modem and 9600 baud fax that has more features than some of the most expensive fax machine. A must for any office environment using Macintosh computers!

**Abaton**  
We Make Your Ideas Easier to Publish™

## RasterOps



*Call for Pricing!*

RasterOps new Flicker-Free 72 dpi WYSIWYG 24-bit graphics board and 19" Color Displays for the Macintosh II CPUs and the SE/30.

RasterOps new card, the Colorboard 364, can display live 24-bit video in a moveable, resizeable Mac window. Other features include frame grabbing at a 30th of a second, hardware pan, zoom and virtual desktop capabilities!

24L Color System  
24-bit color, 19" trinitron

8L Color System  
8-bit color, 19" trinitron

ClearVue GS System (for SE/30 or Mac II)  
8-bit Gray Scale, 19" display

364 Video Card/ Frame Grabber

## Mass Micro DataPak™



Only \$799

\* incl. Data Cartridge

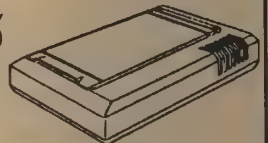
45 Megabytes on a removeable cartridge. Justpop in another cartridge whenever you need more storage. With an access time of 25ms, the DataPak™ is faster than many hard drives. Complete with one cartridge, software for back-up, security and partitioning. Voted by industry experts as the best new storage system for the Macintosh!

**MASS**  
microsystems

## Microtek 300Z Color Scanner

Now \$1895

incl. Interface



If you're serious about scanning, this is the scanner for you. Choose from 64 to 256 shades of gray, or 8-bit color in flatbed format. The Microtek 300Z comes with a one year warranty!

## Kodak Diconix M150 InkJet Printer



Only \$545

- 300 dot per inch resolution
- Portable printer for Macintosh computers
- Small and light enough to carry in your briefcase
- AC-powered or battery-operated with built-in charger

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- Powerful Macros
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- Financial Functions
- Color Graphics



**Only \$265**

## Microsoft® Works

Put a Macintosh to Work with Microsoft works and you can create customized letters, memos, proposals and turn big tasks like budgeting and financial analysis into small ones; and get the power to manage mountains of information. Spreadsheet, database, word-processing and telecommunications all-in-one!



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Save \$96

## SmartBundle

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- Spreadsheet and Charting
- Database Management
- Painting & Drawing



**Special SmartBundle Price**

**Only \$329**

If purchased separately \$813  
save \$484

## Hard Drives

| CMS | Capacity | External |
|-----|----------|----------|
|     | 20 mb    | \$379    |
|     | 40 mb    | \$485    |

| QUANTUM | Capacity | Internal |
|---------|----------|----------|
|         | 80 mb    | \$699    |
|         | 105 mb   | \$899    |

## Care-Free Security Kit

Care-Free Security Kits protect your Apple computer's keyboard, main unit and monitor from theft. Complete with 7' steel cable, case hardened padlock and all brackets.



**\$29.95**

Carrying Cases for your Computer, Printer, and Hard Drives

**\$39 to \$99**



- Padded Cordura Construction
- Double Handles
- Double Zippers

Available for:  
Macintosh Plus, Macintosh Classic, Macintosh SE, and ImageWriter II



COMPUTER SELECTION

## MacWrite® II



MacWrite® II software gives you all the tools you need for a wide range of writing tasks!

**Only \$149**

## MacDraw® II

Design tool for the rest of us. Object oriented drawing tool. Supports color on the Mac II.



**Only \$275**

## FileMaker Pro

**Only \$219**

*In Stock Now!*



- Voted #1 Database by Macintosh Users
- Manage and analyze information with unrivaled reports
- Share information on a network
- Generate sophisticated reports
- Exchange data with other programs

## Special Bundles!

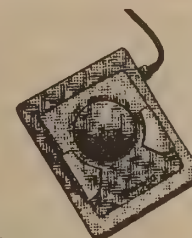
FileMaker Pro & MacDraw II  
**Special \$489**

FileMaker Pro & MacWrite II  
**Special \$385**

## Kensington Turbo-Mouse

Trackball with two buttons for Macintosh Users.

Available for:  
Mac Plus, Mac SE, and the Mac II family of Computers.



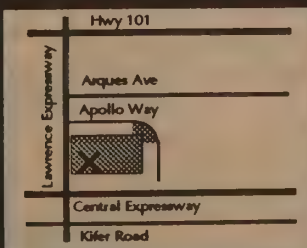
**Only \$129**

## Computer Selection 3.5" DS/DD Diskettes

- 10-pak with plastic carry case
- Lifetime warranty



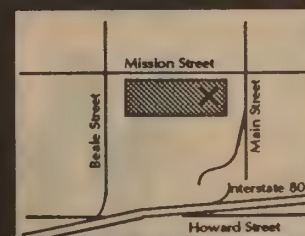
**Special \$9.95**



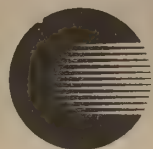
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1. **SATISFACTION GUARANTEED:** or money back.
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4. **SAME DAY DELIVERY:** order before 2:00 PM.
5. **DIRECT FROM FACTORY:** no middleman.

#### Dealer's price

|                                                             |       |
|-------------------------------------------------------------|-------|
| 8 bit "2-in-1" ArcnetCard Star Coaxial + Twisted pair ..... | \$55  |
| 8 bit "4-in-1" ArcnetCard Bus Coaxial + Twisted pair .....  | \$62  |
| 16 bit ArcnetCard Star .....                                | \$85  |
| 16 bit ArcnetCard Bus .....                                 | \$89  |
| 16 bit ArcnetCard Twisted pair .....                        | \$89  |
| 8 port Arcnet Active HUB (Stackable) .....                  | \$155 |
| 8 bit NE-1000 Compatible Card .....                         | \$115 |
| 16 bit NE-2000 Compatible Card .....                        | \$145 |

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Distributors,  
Resellers**

### NEW PRODUCTS:

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**TURBO card**
- 16-bit Arcnet &  
**Ethernet cards for  
PS/2 MCA**
- 16-bit 10BaseT  
twisted pair  
**Ethernet cards**
- Diskless  
**Workstation/File  
Server**

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(408) 954-8864**

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Fax: (408) 954-8299  
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## MICROTIMES 1991 NC COMPUTER RESELLER GUIDE

### NORDIC COMPUTERS

Store Manager: Andy Jacobsen  
2170 R Commerce Ave.  
Concord, CA 94520  
(415)687-3050

**Areas of Specialty:** Hardware

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Omnitel, VLSA

**Special Value Added:** One year parts and labor warranty. On-site service.

### ONLINE COMPUTER RESOURCES

Store Manager: Joe Martin  
4330-J Clayton Rd.  
Concord, CA 94521  
(415)687-1122

**Areas of Specialty:** Novell LANs, Desktop Systems, Telecommunications

**Operating Systems Supported:** MS-DOS, OS/2

**Leading Brands Sold:** Maxtor, Seagate, Novell

**Special Value Added:** One year warranty hardware 800/ support. In house and on site service.

### PARS INTERNATIONAL

Store Manager: Joseph Rouzmehr  
22441 Foothill Blvd.  
Hayward, CA 94541  
(415)733-0103

**Other Locations:** Fremont

**Areas of Specialty:** Hardware, Desktop Publishing, Accounting

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/ XENIX, Novell

**Leading Brands Sold:** PIC 386, PIC 386-25 Cache, PIC 386-33 Cache

**Special Value Added:** One year parts and labor, unlimited technical support

### PERSONAL COMPUTER CONSULTANTS

Store Manager: Brent Meyers  
P.O. Box 6280  
Moraga, CA 94570  
(415)376-6177

**Areas of Specialty:** Custom Database Programming, Word Perfect (Authorized Consultant)

**In-House Expert:** Brent Meyers

**Operating Systems Supported:** MS-DOS, OS/2, Concurrent DOS/386

**Leading Brands Sold:** Everex, IBM, Panasonic

**Special Value Added:** Systems integration, installation, training and seminars, on-site service, tech support.

### POWERLIGHT SYSTEMS

Store Manager: Jean-Pierre Chelouche  
46 Crane Court  
Alameda, CA 94501  
(415)523-1139

**Areas of Specialty:**

**In-House Expert:**

386SX and 386 DX

Jean-Pierre Chelouche

IBM Compatible Systems (Software) Joyce August

**Operating Systems Supported:** MS-DOS

### PRECISION COMPUTERS

Store Manager: John Nguyen  
4035 Clipper Court  
Fremont, CA 94538  
(415)657-9811

**Areas of Specialty:** Novell, Windows, UNIX

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/ XENIX, Novell

**Leading Brands Sold:** 386/33, 386/25, 286-12

**Special Value Added:** Novell, Windows, DOS training

### HPS

Store Manager: Walter Remy  
3845 Beacon Ave.  
Fremont, CA 94538  
(415)797-0855

**Areas of Specialty:** Magnetic media for data storage

**MICROTIMES**  
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"C<sup>2</sup> Micro Systems has crafted an eminently expandable, strong and price performing 386-33 MHz computer..."

—PC MAGAZINE Feb. 90



"The C<sup>2</sup> 386-SX had definite strong CPU processing test results..."

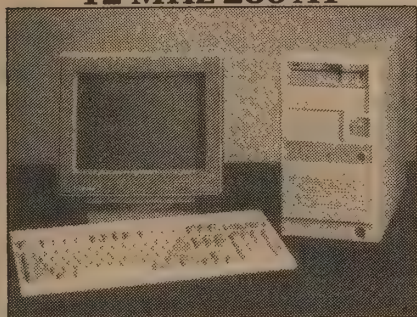
—BYTE Aug. 90

## 10 More Good Reasons To Call C<sup>2</sup> Micro Systems

1. Custom System Integration
2. Nationwide On-Site Warranty available
3. Excellent Corporate and Educational Experience
4. Customer Satisfaction Guarantee
5. Knowledgeable Sales Staff
6. State of the Art Components
7. In-House Technical Support
8. Business Leasing Available
9. Personal Service
10. Wide Selection of Peripherals

### AT STARTER SYSTEM

12 MHz 286 AT

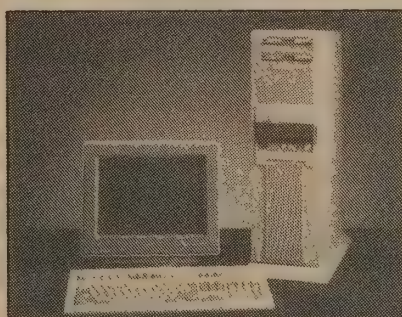


- 1 MB Memory
- 44 MB Western Digital Hard Drive
- 1.2 Floppy Drive
- HDD/FDD Controller
- 2 serial/1 parallel port
- 101 Enhanced Keyboard
- Desktop Case w/200 Watt power supply

**\$690**

### SABER SYSTEM

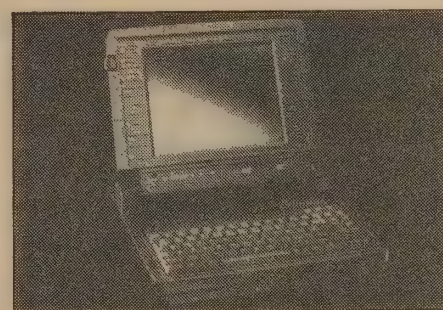
25 MHz 486



- 1 MB Memory
- 1.2 Floppy Drive
- HDD/FDD Controller
- 2 Serial/1 Parallel Port
- 101 Enhanced Keyboard
- Desktop Case w/230 Watt power supply

**\$2450**

### 386SX LAPTOP



- 386SX-16MHz
- 40 MB Hard Drive
- VGA LCD Screen
- 1.44 Floppy Drive
- 1 MB expandable to 5 MB
- Removable Keyboard

Look for the review in the January issue of PC Magazine

**\$1995**

### AT WARRIOR SYSTEM

20 MHz 286

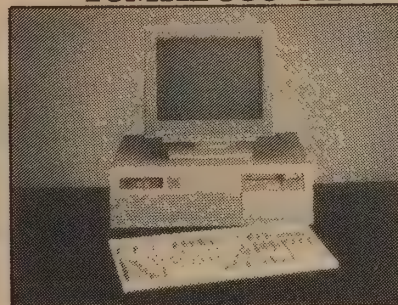


- 1 MB Memory
- 44 MB Western Digital Hard Drive
- 1.2 Floppy Drive
- 2 Serial/1 Parallel port
- 101 Enhanced Keyboard
- Desktop Case w/200 Watt power supply

**\$875**

### SX ADVANCED SYSTEM

16MHz 386-SX

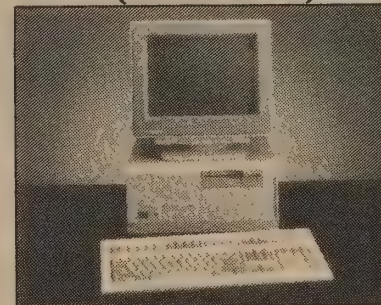


- 1 MB Memory
- 44 MB Western Digital Hard Drive
- 1.2 Floppy Drive
- HDD/FDD Controller
- 2 Serial/1 Parallel port
- 101 Enhanced Keyboard
- Desktop Case w/200 Watt power supply

**\$965**

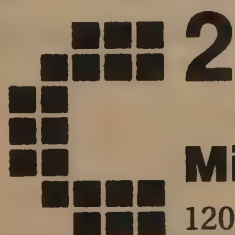
### CACHE DEVELOPER SYSTEM

33 MHz 386-cache  
(32K cache)



- 1 MB Memory
- 107 MB Microscience Hard Drive
- HDD/FDD Controller
- 2 Serial/1 Parallel port
- 101 Enhanced Keyboard
- Desktop Case w/200 Watt power supply

**\$1860**



Serving the Bay Area Since 1985

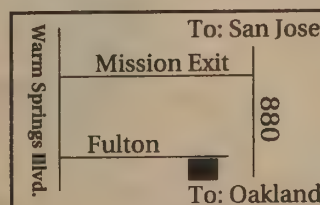
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**Micro Systems, Inc.**

1205 Fulton Place, Fremont, CA 94539

**(415) 683-8888**

**Fax (415) 683-8893**

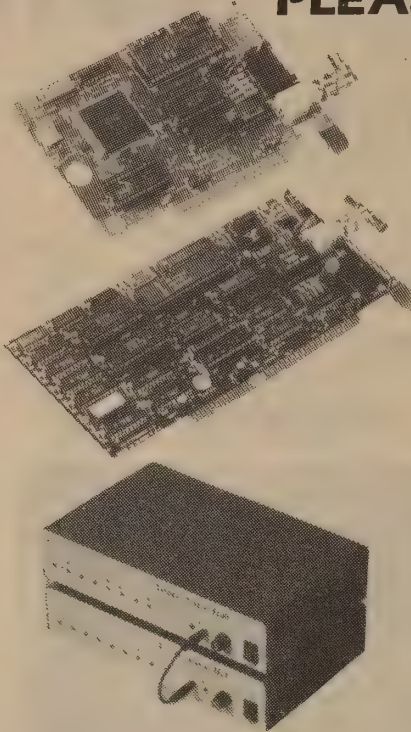




# ΣDiMAX®

- LAN Professional
- LAN Manufacturer
- Your Network Support
- Manufacturer Warranty

**\*\* SPECIAL PROMOTION PRICE FOR  
DEALERS IN DECEMBER  
PLEASE CALL US\*\***



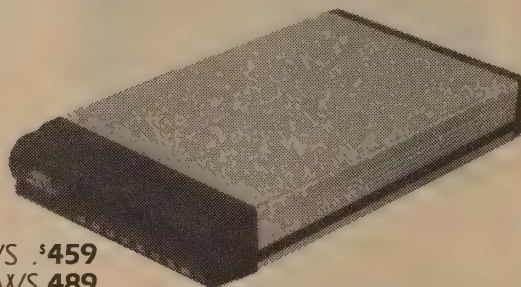
## ARCNET:

|                                    |      |
|------------------------------------|------|
| 8-bit: star, coax                  | \$63 |
| 4 in 1: star, bus, coax, tp        | 69   |
| 16-bit: star, coax                 | 99   |
| 4 in 1: star, bus, coax, tp        | 105  |
| 8-port active hub: coax, stackable | 149  |
| twisted pair                       | 239  |
| Repeater: coax - coax              | 119  |
| twisted pair - twisted pair        | 119  |
| coax - twisted pair                | 119  |
| 4-port passive hub                 | 19   |

## ETHERNET:

|                              |       |
|------------------------------|-------|
| 8-bit NE-1000 compatible     | \$125 |
| 16-bit, NE-2000 compatible   | 139   |
| 8-bit, WD8003 compatible     | 149   |
| 2-port Repeater, coax - coax | 649   |

\*Please call for network accessories.



## File Server & Diskless Workstation:

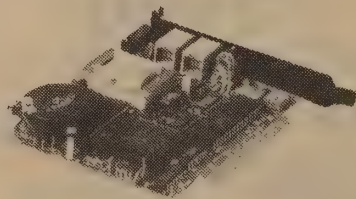
Basic unit:

|                           |                   |       |
|---------------------------|-------------------|-------|
| 286-12, 0 wait, 512k RAM  | 8-bit Arcnet WS   | \$459 |
| 5-bay deluxe case         | 8-bit Ethernet WS | 489   |
| 101 Key enhanced keyboard | 16-bit Arcnet WS  | 499   |
| MGP + monitor             | 16-bit Ethernet   | 514   |

\*Please call for file server price

## MODEM:

|                         |       |
|-------------------------|-------|
| 2400 baud pocket modem  | \$125 |
| 2400 baud internal      | 69    |
| 2400 baud external      | 99    |
| 2400 baud internal MNP5 | 145   |
| 2400 baud external MNP5 | 165   |
| 9600 baud external MNP5 | 665   |



3350 Scott Blvd. Bldg 9-A  
Santa Clara, CA 95054  
**TEL: 408-496-1105**  
**FAX: 408-980-1530**

# ΣDiMAX®

COMPUTER COMPANY

## MICROTIMES 1991 PC COMPUTER RESELLER GUIDE

**Operating Systems Supported:** All

**Leading Brands Sold:** RPS

**Special Value Added:** One year warranty on all storage tapes and disks. Computer tape up to 25 year warranty. Call for details.

## S.T.A. COMPUTER CORPORATION

Store Manager: Mr. Mike Kimura  
46724 Fremont Blvd.  
Fremont, CA 94538  
(415)770-0917

### Areas of Specialty:

Novell MS-DOS, 386  
Novell MS-DOS, 386  
Novell MS-DOS, 386

### In-House Expert:

Alex Liou  
David Wang  
Bruce Young

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
XENIX, Novell

**Leading Brands Sold:** Fuji, TEAC, Novell

**Special Value Added:** On-site service (by NWC), 1 year warranty (parts and labor free) 800 number support.

## SOLETEK

Store Manager: Kady Tsai  
47400 Seabridge Dr.  
Fremont, CA 94538  
(415)438-0160

**Other Locations:** L.A., New Jersey

**Areas of Specialty:** PC Cases, Motherboards, Power Supplies

**In-House Expert:** Jim Chen

**Operating Systems Supported:** MS-DOS

## SONGTECH INTERNATIONAL

Store Manager: Song Chen  
44061 S. Grimmer Blvd.  
Fremont, CA 94538  
(415)770-9051

**Areas of Specialty:** Portable Computer, Expo-40 Programmer, Eprom Programmer

**In-House Expert:** Song Chen

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
XENIX

**Leading Brands Sold:** Kingtech, Sunshine Programmer, Imprimis

**Special Value Added:** Technical support, extended warranty, full refund within one week, regular customer maintenance.

## SURAH, INC.

Store Manager: Mohammed Iqbal  
44912 Osgood Rd.  
Fremont, CA 94539  
(415)651-5101

**Areas of Specialty:** Desktop Publishing Packages-Novell/3  
Com/X-Windows, Cad/Cam Packages, Multimedia  
Authoring packages-standalone Unix workstations

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS,  
UNIX/XENIX

**Leading Brands Sold:** Surah, Compaq, Everex

**Special Value Added:** Service, training, support, warranties,  
return policy, etc.

## TAYLOR MADE OFFICE SYSTEMS, INC.

Store Manager: Sheryl Dornblaser  
1035 Detroit Ave.  
Concord, CA 94518  
(415)676-1642

**Other Locations:** Oakland, San Jose, San Francisco, San  
Mateo, Santa Rosa, Fairfield, Monterey

**Areas of Specialty:** Color Laser Printer/Scanner

**Operating Systems Supported:** MS-DOS, Mac OS

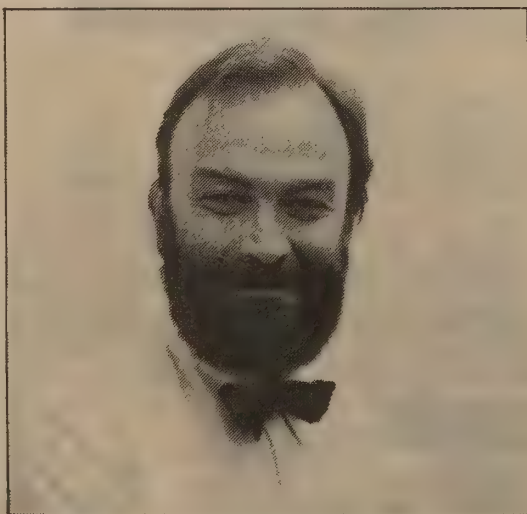
**Leading Brands Sold:** Canon

**Special Value Added:** Service, training, support, warranties.

## TECHNICAL WIZARDRY

Store Manager: Jonathan Howell  
2530 10th St., Ste.1  
Berkeley, CA 94710  
(415)548-2474

**Areas of Specialty:** Computer Service



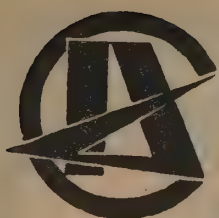
# UNIX?

If **grep**, **chmod** and **nroff** are  
getting you down, find help fast  
in the *MicroTimes* UNIX  
column by Bennett Falk.

# MICROTIMES

5951 Canning Street, Oakland, CA 94609



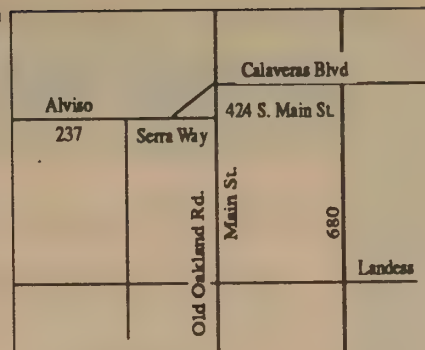


# COMPUTER ART

## COMPUTER ART

424 S. MAIN ST.  
MILPITAS, CA 95035  
TEL: (408)946-7852  
(408) 946-7853  
FAX: (408) 946-7892

BUS. HRS: M-F 9:30-6:00; SAT 11:30-4:00



### NOVELL

4 USER SYSTEM \$5000

ELS Level I, 386-20 Fileserver /150 Meg, 2 M.Ram

3 ARCnet workstation \*20' cables

8 USER SYSTEM \$7000

### OPEN DESKTOP /UNIX

1 USER SYSTEM \$2950

SCO UNIX, 386-25 Fileserver /150 Meg/4 Meg RAM  
with 16 BIT VGA+Super VGA.

8 USER SYSTEM \$7899

All workstations come with: 286 12/16 MHZ, 1 MB RAM, 2 Serials, Mono+Mono Card + 1.2 F.D/  
**ONE FULL YEAR PHONE SUPPORT**

**SPECIAL SALE: ORCHID 16BIT VGA COMPATABLE 1M.RAM**  
**(1024 X 768 )NON-INTERLACED / INTERLACED = \$179**

| C - ART    | LM    | BASIC  | 40MB<br>28MS | 68 MB<br>25 MS |
|------------|-------|--------|--------------|----------------|
| 386SX-16   | 21MHZ | \$579  | \$824        | \$909          |
| 386-20     | 28MHZ | \$750  | \$990        | \$1080         |
| 386-25     | 34MHZ | \$800  | \$1024       | \$1120         |
| 386-25/64C | 43MHZ | \$900  | \$1140       | \$1220         |
| 386-33/64C | 58MHZ | \$1050 | \$1290       | \$1370         |

### SPECIAL

MONO MONITOR+MONO CARD.....\$99  
SUPERVGA(1024X768)+16 BIT VGA CARD...\$435  
80 MB HARD DRIVE W/CONTROLLER.....\$479  
PRINTER PANASONIC 1180.....\$159  
MODEM 2400.....\$70  
VGA CARD.....\$85  
40 MB.....\$249

## \$1800/486

C-ART 486 25MHZ/CACHE

LANDMARD - 115

1MB RAM EXPANDABLE TO 16 MB  
1.2 OR 1.4 MB FLOPPY DRIVE  
2 SERIAL, 1 PARALLEL, 1 GAME PORT  
CLOCK/CMOS, 101 KEYBOARD  
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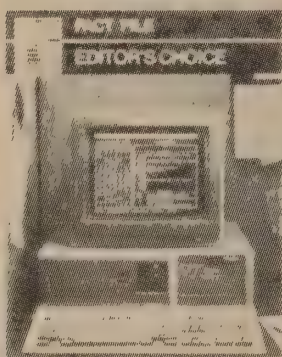
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#### AST Premium® 386SX/16

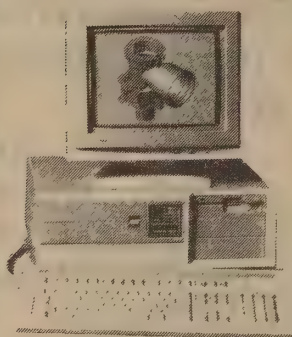


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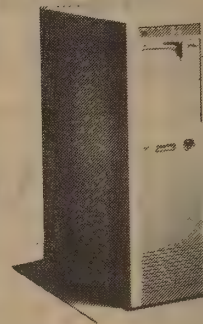


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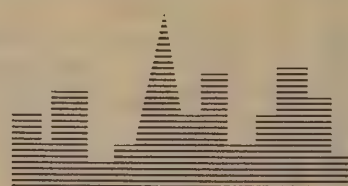
- Modular i486™, 33 MHz CPU card with 8 Kb cache memory
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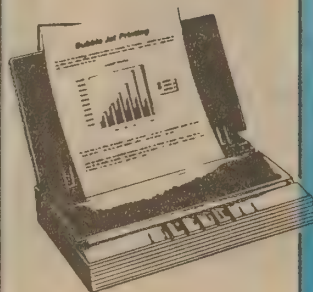


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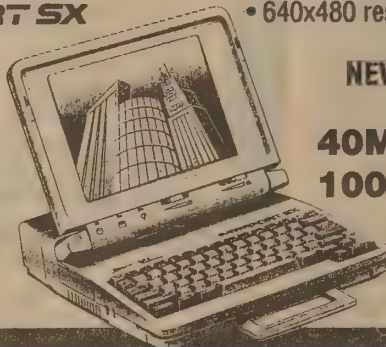
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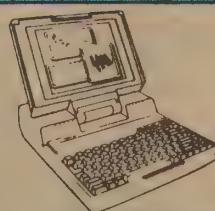
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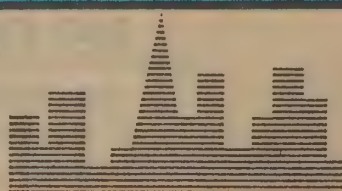
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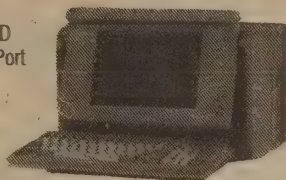
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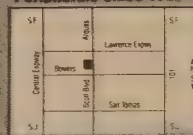
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**MICROTIMES**



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**In-House Expert:** 486 Expert

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** ALR, AMI, Mylex

**Special Value Added:** Consulting, extended warranty, on-site service, support, training.

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(415)649-8888

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**Areas of Specialty:** Novell and LANtastic LANs

**In-House Expert:** Adam Baum

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Mylex, Panasonic

**Special Value Added:** Fast service, extended warranties, refund and exchange privileges, technical support, networking.

#### USM DISTRIBUTORS

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Fremont, CA 94538

(415)623-9040

**Other Locations:** So. San Francisco, Santa Clara, Brea

**Areas of Specialty:** Hardware, Networking, Name Brand Motherboard

**Operating Systems Supported:** MS-DOS, OS/2

**Leading Brands Sold:** AMI, Pixel Ultimate VGA, USM Faxcard

**Special Value Added:** Special customization of systems for CAD, CAM, and Novell. One year parts and labor, repair center.

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Store Manager: King McCarthy

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Walnut Creek, CA 94596

(415)943-1600

**Areas of Specialty:** Computer Graphics, Video Graphics, Desktop Publishing

**Operating Systems Supported:** MS-DOS, OS/2, Mac OS

**Leading Brands Sold:** Targa, Lumena, Rio

**Special Value Added:** Training, support, service.

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Store Manager: Charles Collum

2990 7th Street

Berkeley, CA 94710

(415)843-1700

**Other Locations:** Yes

**Operating Systems Supported:** MS-DOS, OS/2, AmigaDOS, Mac OS, UNIX/XENIX, Novell

**Leading Brands Sold:** Apple, Compaq, IBM

**Special Value Added:** Training classes, service support, manufacturer warranties, return policy, leasing (personal and business).

#### WHOLE EARTH ACCESS

Store Manager: Steve Jawigian

Willows Shopping Center, 1975 Diamond Blvd.

Concord, CA 94520

(415)686-2270

**Other Locations:** Yes

**Operating Systems Supported:** MS-DOS, OS/2, AmigaDOS, Mac OS, UNIX/XENIX, Novell

**Leading Brands Sold:** Apple, Compaq, IBM

**Special Value Added:** Training classes, service support, manufacturer warranties, return policy, leasing (personal and business).

#### WINNERS CIRCLE

Store Manager: Andy Jong

2618 Telegraph Ave.

Berkeley, CA 94704

(415)845-4823

**Areas of Specialty:**

Multimedia

Desktop Publishing

Video Production

**In-House Expert:**

Jack Palmatier

Vince Steeb

Tracy McSheery

**Operating Systems Supported:** MS-DOS, OS/2, CP/M, AmigaDOS, Mac OS, TOS(Atari), UNIX/XENIX

**Leading Brands Sold:** AST, Everex, Amiga

**Special Value Added:** On-site service, free training, BBS, free technical support, user groups, public domain library.

#### WORKSTATIONS PLUS

Store Manager: Stephan Wickham

1615 Alvarado

San Leandro, CA 94577

(415)351-2661

**Areas of Specialty:** Sun Memory Enhancement, Upgrades, Business and Scientific Software, High-Resolution Graphics

**In-House Expert:** Stephan Wickham

**Operating Systems Supported:** SUN/OS

**Leading Brands Sold:** Oracle, Hewlett-Packard, Lotus 1-2-3 for Sun

**Special Value Added:** Service, support, warranties. System integration, pre-sale consulting.

#### Y.E.S. SYSTEMS CORP.

Store Manager: Jimmy Kang

44829 Fremont Blvd.

Fremont, CA 94538

(415)657-4888

**Areas of Specialty:** P.C. Software/Hardware

**In-House Expert:** Jimmy, Thomas, Larry

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** TEAC, Panasonic, Toshiba

**Special Value Added:** Hardware installation, repair; software training.

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#### ABORN COMPUTER

Store Manager: Gary Schrader

3260 S. White Rd.

San Jose, CA 95148

(408)270-5888

**Areas of Specialty:** Quattro Pro, Lotus 1-2-3, Microsoft Word

**In-House Expert:** Gary Schrader

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Aborn, Citizen, Hyundai

**Special Value Added:** One year warranty on all Aborn systems. Service on all IBM compatibles.

#### ACCESS COMPUTER TECHNOLOGIES

Store Manager: Mike Crane

3393 El Camino Real

Santa Clara, CA 95051

(408)247-4444

**Areas of Specialty:**

DBASE III+

**In-House Expert:**

Kris West, Saul Aldana

DESQview, PFS Prowrite,

DOS, Procomm Plus

Windows

Curtis Howard

Mike Crane

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Panasonic, Epson, NEC

**Special Value Added:** No returns on software (unless defective). Public Domain shareware @ \$3/disk—1500 files in stock.

#### ACR SYSTEMS

Store Manager: Snyder J. Ohki

2372 Walsh Ave.

Santa Clara, CA 95051

(408)727-5611

**Areas of Specialty:**

P.O.S. System

486 System and Unix

VGA and CAD

**In-House Expert:**

John R. Sousa

Snyder J. Ohki

Kenley Fritts

**Operating Systems Supported:** MS-DOS, OS/2, AmigaDOS, Mac OS, UNIX/XENIX

**Leading Brands Sold:** MS-DOS, Unix and XENIX, Interactive

**Special Value Added:** Service, training, support, warranties, return policy.

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Store Manager: Rod Minarik

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Los Gatos, CA 95030

(408)399-2771

**Areas of Specialty:**

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Medical Dental Automation

**In-House Expert:**

Brian Bortiz

Rod Minarik, Dennis English

**Operating Systems Supported:** MS-DOS

**Special Value Added:** Local service, in house support, long term relationship, very reasonable rates.

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Santa Clara, CA 95050

(408)985-1690

**Areas of Specialty:**

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IBM Platinum Accounting Series

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** AMS 386, Hewlett-Packard, Opus 88000

**Special Value Added:** 1 year parts and labor, money back guarantee, on-site service contracts, systems management contracts.

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San Jose, CA 95131

(408)432-6277

**Areas of Specialty:** Portables, Laptops, 386,486 systems

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** American, Portables,

**Special Value Added:** Service, training, support.

#### AMERICAN MULTITECH

Store Manager: Andrew Ngo

2365 Paragon Dr., Suite F

San Jose, CA 95131

(408)922-0674

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, Novell

#### AMT INTERNATIONAL

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San Jose, CA 95131

(408)432-1790

**Areas of Specialty:**

Integrating Systems

**In-House Expert:**

Prashant Shah



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Made In The USA

**286-12 MHz SYSTEM...\$329**

Made In The USA

## SYSTEMS CONFIGURATIONS:

- Motherboard & CPU
- 1 MB/512K Memory
- 2 Serial/1 Parallel/1 Game Port
- Enhanced Case
- 1.2 or 1.44 MB Floppy Drive
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- Co-Processor Socket
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**BUSH COMPUTERS, USA**  
**(408) 773-9900**

## SYSTEMS:

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| BUSH-386/SX SYSTEM: Price.....                                       | <b>589</b>       |
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| BUSH-386/25 SYSTEM: Price.....                                       | <b>829</b>       |
| BUSH-386/25C SYSTEM<br>(w/64KB cache):Price.....                     | <b>999</b>       |
| BUSH-386/33 (w/32KB cache, Intel cache<br>controller)/64K cache..... | <b>1249/1049</b> |
| BUSH-486/25 SYSTEM: Price.....                                       | <b>1849</b>      |
| (Same Configuration As Above)                                        |                  |

## DISPLAY SET-UP:

- 14" S. VGA/Card (1024x768) .....**\$430**
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- Sony 1304 Monitor.....**675**

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- 40 MB w/controller.....**\$249**
- 66 MB w/controller.....**349**
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- 100 MB w/controller.....**475**

## PERIPHERALS

### HARD DRIVES

|                                        |              |
|----------------------------------------|--------------|
| ST157N-1 40 MB SCSI.....               | <b>\$319</b> |
| ST1239A 210 MB IDE.....                | <b>750</b>   |
| TOSHIBA/MITSUBISHI 66 MB 25MS RLL..... | <b>285</b>   |
| CONNER CP3044 40 MB, 25MS IDE.....     | <b>345</b>   |
| CONNER CP3184, 80 MB, 25MS IDE.....    | <b>499</b>   |
| CONNER CP3104, 100 MB, 19MS IDE.....   | <b>549</b>   |
| RODIME 80 MB, 18MS IDE.....            | <b>479</b>   |
| RODIME 100 MB, 18MS IDE.....           | <b>499</b>   |
| NEC D3661 110 MB, 18MS ESDI.....       | <b>629</b>   |
| NEC 5655 150 MB, 18MS ESDI.....        | <b>749</b>   |
| MAXTOR 200 MB, 16MS IDE.....           | <b>810</b>   |
| MAXTOR 350 MB, 16MS ESDI.....          | <b>1349</b>  |
| MAXTOR 660 MB, 16MS ESDI.....          | <b>1785</b>  |

### ACCESSORIES

|                                                        |                |
|--------------------------------------------------------|----------------|
| 101 KEYBOARD.....                                      | <b>\$42</b>    |
| MINI VERTICAL CASE W/200W POWER SUPPLY.....            | <b>105</b>     |
| VERTICAL CASE W/200W POWER SUPPLY.....                 | <b>160</b>     |
| MONOCHROME CARD W/PRINTER PORT.....                    | <b>25</b>      |
| COLOR GRAPHICS CARD W/PRINTER PORT.....                | <b>37</b>      |
| EGA GRAPHICS CARD.....                                 | <b>95</b>      |
| VGA GRAPHICS CARD.....                                 | <b>75</b>      |
| SUPER VGA TSENG LAB NON-INTERLACED 512K.....           | <b>160</b>     |
| SUPER VGA PARADISE 512KB.....                          | <b>120</b>     |
| AT 2 SERIAL,1 PARALLEL CARD.....                       | <b>25</b>      |
| WD COMPATIBLE 2F/2H AT<br>CONTROLLER CARD MFM/RLL..... | <b>75/90</b>   |
| DTC 7280 AT (1:1) MFM.....                             | <b>80</b>      |
| DTC 7287 2F/2H AT (1:1) RLL.....                       | <b>100</b>     |
| 12" MONOCHROME AMBER MONITOR.....                      | <b>75</b>      |
| 14" FLAT SCREEN AMBER/PAPER WHITE MONITOR.....         | <b>95</b>      |
| 14" SVGA 1024 X 768 .28 DOT MONITOR.....               | <b>360</b>     |
| PANASONIC PRINTER 1124/1180.....                       | <b>275/155</b> |
| COLORADO 80 MB TAPE BACK-UP.....                       | <b>255</b>     |
| LOGITECH SERIAL/BUS MOUSE.....                         | <b>67/80</b>   |
| 2400 BAUD INTERNAL/EXTERNAL MODEM.....                 | <b>75/85</b>   |

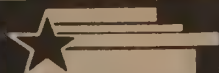
## MICRONICS BAREBONE SYSTEMS:

- 386-33 32K CACHE w/200W BABY CASE...**\$1150**
  - 386-25 32K CACHE w/200W BABY CASE...**1100**
  - 386-20 32K CACHE w/200W BABY CASE...**750**
- (Call For Other New Products From Micronics)

## FLAT-BED SCANNERS

- w/SOFTWARE.....**\$650**
- OMNI PAGE SOFTWARE.....**\$450**

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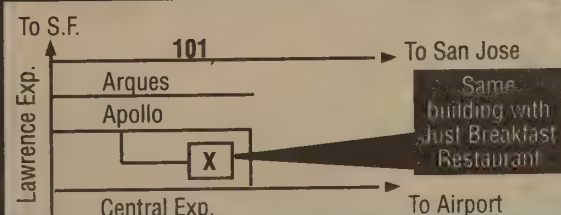


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- Student Financial Program Available
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Authorized Dealer



The new Pivot display is the latest innovation from Radius and has proven to be one of their most versatile products. With the ability to switch from portrait to landscape mode through the use of sophisticated RadiusWare software, this monitor combines the best of a two page and full page display. The Pivot is the perfect compliment to virtually any desktop publishing, accounting or word processing station. Come see the Pivot Display in our demo room TODAY!

## The Radius PIVOT Display \$1199

The Radius Two Page Display converts any Macintosh from the SE family or II family into a professional publishing workstation. By displaying two letter size pages in high resolution monochrome graphics this monitor is perfect for spread sheets too. Radius designed the TPD with a paper-like image which maintains superior brightness, contrast and focus across the entire screen. The TPD also comes with powerful software features like tear off menus, and includes a one year manufacturer's warranty.



## The Radius Two Page Display \$1299

### Other Radius Products...IN STOCK

- 21" Monochrome Monitor for SE
- Two Page Color Display (24 bit)
- Two Page GrayScale (8-Bit)
- Radius TV
- Quick Color Graphics Accelerator
- 25 MHz Accelerator for SE
- 16 Mhz Accelerator for Plus
- Radius Color Systems

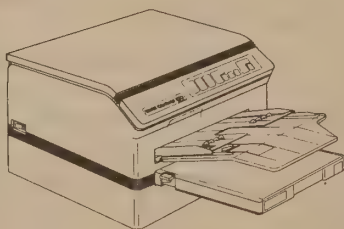
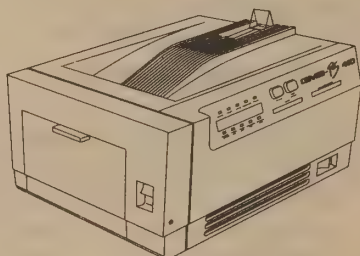
# QMS™

Authorized Dealer

## QMS PS 410

68020 @ 16 MHz, 4ppm  
2 Mb RAM, 45 Fonts

This product represents a true revolution in laser printers. Compact, powerful and affordable. Truly the best printer in its class!!



## QMS ColorScript 100 Model 10

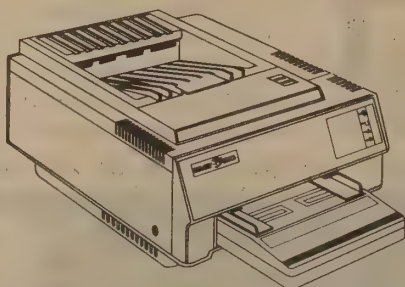
68020 @ 16 MHz  
4 Mb RAM, 35 Fonts

The ColorScript 100 has the highest quality and is the most inexpensive Adobe postscript color printer available.

## QMS PS 810

68000 @ 16 MHz  
8 ppm, 2 Mb RAM

The 810 can be classified as one of the best overall printers. As a true Adobe postscript printer operating at 16 MHz in a Canon 8ppm engine the PS 810 out does most other printers.



**All Printers Are IN STOCK And Available!  
CALL TODAY FOR THE BEST PRICING!!!**

# Abaton

Authorized Dealer

**90 Day On Site Warranty!!!**

## LaserScript

This laser printer offers affordable high-performance 300 x 300 dpi printing to handle all your desktop printing needs-from presentation graphics and custom artwork to spreadsheets and newsletters. The LaserScript can be shared by multiple users printing from a variety of applications and operating systems.

**\$1999**

## 300 GS Scanner

Abaton's Scan 300/GS is a 300 dpi, 8 bit scanner, with 256 levels of true gray-scale. Abaton's Scan DA software is a desk accessory that lets you scan images from within any macintosh application without exiting your program. Includes one year warranty with

first 90 days on-site

**\$1299**

## Interfax 24/96

This product represents one of the industry's most successful and useful peripherals. The Interfax modem is a 2400 baud modem and 9600 baud fax that has more features and capabilities than the most expensive fax machines. There is no way to lose on this award-winning product from

Abaton.

**\$399**

**Propoint Trackball \$89**

# RasterOps

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|---------------------|--------|
| Colorboard 208      | \$399  |
| Colorboard 264      | \$599  |
| ClearVue System /SE | \$1299 |
| ClearVue GS System  | \$1499 |

**Call for the best pricing on color systems!**

# SUPERMAC TECHNOLOGY

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| Platinum Grayscale                         | \$1899 |
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# PROMETHEUS PRODUCTS, INC.

Authorized Dealer

|                                  |       |
|----------------------------------|-------|
| 2400/4800 baud send-fax modem    | \$199 |
| 9600/9600 baud snd/rcv fax modem | \$699 |

# CUTTING EDGE

Authorized Dealer

## TWO PAGE DISPLAY

70 Hz, 76 DPI 19" Monochrome monitor with tilt and swivel for Mac SE, II and SE/30.

**\$969**

## FULL PAGE DISPLAY

75 Hz, 80 DPI 15" Monochrome monitor with tilt and swivel for Mac SE, II and SE/30.

**\$599**

External 20 Mb HD \$349

External 32 Mb HD \$449

External 45 Mb HD \$599

**44Mb Removable Hard Drive \$749**



# Get More Power AND Spend Less Money !



Macintosh computers, through superior design, will function longer with less repairs than your car. By investing in a slightly used Macintosh surrounded by new peripherals, you are assured a more powerful computer for less money!

## The Elite Advantage:

- \*All Apple Macintosh computers come with a full 100 day warranty, extended warranties are also available.
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- \*Complete Financing or Leasing available O.A.C.
- \*Complete system configuration, burn-in and testing at no additional cost.
- \*We will also buy your old Macintosh for cash or put it towards a new system.
- \*ECS works on an appointment only basis, enabling each client to have the time needed to purchase the system right for their needs.

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HP Deskwriter \$749  
ImageWriter II \$349  
Mac Plus \$599  
Macintosh SE (40/1) \$1549

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Two Page Display \$799  
Macintosh IIfx (40/1) \$3099  
Mac SE Dual Floppy \$1299

QMS PS 410 \$2199  
Macintosh IIfx (40/1) \$4199  
Macintosh SE/30 \$3099  
QMS ColorScript 100 \$7899

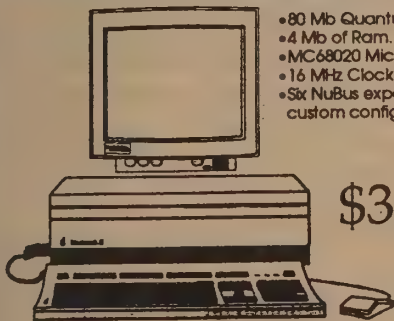
### Macintosh SE [20/1]

- 800k Floppy Drive.
- MC68000 Microprocessor.
- 8 MHz Clock Speed.
- 20 Mb Hard Drive.
- 1 Mb of Ram.
- One SE expansion slots for accelerators or large monochrome monitors.



\$1399<sup>†</sup>

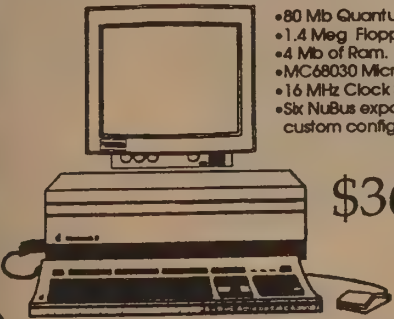
### Macintosh II [80/4]



- 80 Mb Quantum Hard Drive
- 4 Mb of Ram.
- MC68020 Microprocessor.
- 16 MHz Clock Speed.
- Six NuBus expansion slots for custom configuration.

\$3299<sup>\*</sup>

### Macintosh IIfx [80/4]



- 80 Mb Quantum Hard Drive
- 1.4 Meg Floppy Drive.
- 4 Mb of Ram.
- MC68030 Microprocessor.
- 16 MHz Clock Speed.
- Six NuBus expansion slots for custom configuration.

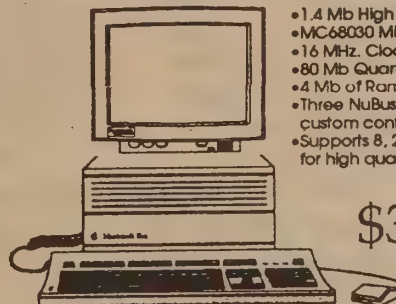
\$3699<sup>\*</sup>

LaserWriter  
IINTX  
\$3399

LaserWriter  
IINT  
\$2599

Apple Two  
Page  
Displays  
(With Mac II Interface)  
\$1499

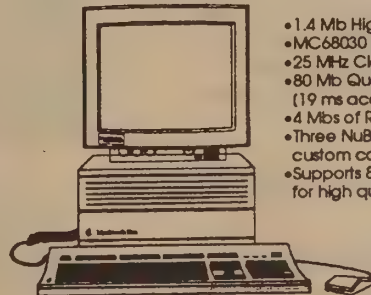
### Macintosh IIfx [80/4]



- 1.4 Mb High Density Floppy Drive.
- MC68030 Microprocessor.
- 16 MHz Clock Speed.
- 80 Mb Quantum Hard Drive
- 4 Mb of Ram.
- Three NuBus expansion slots for custom configuration.
- Supports 8, 24 and 32 bit Quick Draw for high quality graphics.

\$3699<sup>\*</sup>

### Macintosh IIfx [80/4]



- 1.4 Mb High Density Floppy Drive.
- MC68030 Microprocessor.
- 25 MHz Clock Speed.
- 80 Mb Quantum Hard Drive (19 ms access time).
- 4 Mbs of Ram.
- Three NuBus expansion slots for custom configuration.
- Supports 8, 24 and 32 bit Quick Draw for high quality colors graphics.

\$4399<sup>\*</sup>

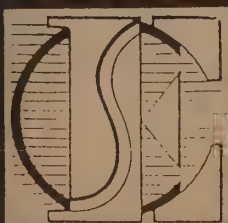
### Macintosh Portable [40/1]

- 1.4 Mb High Density Floppy Drive.
- MC68000 Microprocessor.
- 40 Mb Quantum Hard Drive
- 1 Mb of Ram.
- 6 to 12 hours on single battery charge.

\$2988

<sup>†</sup>Price does not include keyboard.

<sup>\*</sup> Price does not include keyboard, video board or monitor.



## Elite Computers & Software, Inc.

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## IBM COMPUTERS

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VGA mono monitor FREE with this system

PS/2 Mdl 30 286/30 Mb .....\$1749  
PS/2 Mdl 50Z 30 Mb .....1799  
PS/2 Mdl 50Z 60 Mb .....2099  
PS/2 Mdl 55SX 30 Mb .....2369  
PS/2 Mdl 55SX 60 Mb .....2679  
PS/2 Mdl 65SX 60 Mb .....3495

(\*All above prices after IBM rebate)  
offer till 01/15/1991

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- Quicken 3.0 • First Publisher
- Lotus Works • Lotus Magellan
- Calendar Creator Plus
- PGA Tutor Golf

Grab the free software bundle along with any  
of the computer above & DOS. You should  
not miss it...

### Save

more on the following with IBM printers

- Proprinter X24E .....\$469
- Proprinter XL24E .....679
- LaserPrinter .....1559
- LaserPrinter E .....1049

(\*All above prices after IBM rebate  
offer till 01/15/1991)

## CUMULUS computers offer BEST PRICES for COMBINED VALUES

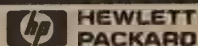
386SX System \$1295  
386SX System 40 Mb 1795

System includes 1 Mb RAM, VGA, FAX board,  
2400 Baud Modem, Telephone Answering System,  
Mouse, Dos 4.01, Windows 3.0, Microsoft  
WORKS, Compuserve.

Call for SOLOMON & SBT Software Packages:

A/C Payable, G/L, Payroll, Fixed Assets, Sales,  
Order entry, Job Cost, Inventory, etc.

NOVELL/LANTASTIC Networking software.



HP LaserJet III with Toner \$1629  
HP LaserJet IIP with Toner 995  
HP DeskJet 500 549  
HP PaintJet 999  
HP DeskWriter with Appletalk 699

## Novell certified products from NEC at BARGAIN PRICES

PM 386/25s \$2095  
PM 386/25s 42 Mb 2525  
PM SX 20 1365  
PM SX 20 42 Mb 1779  
PM SX Plus 1275  
PM SX Plus 42 Mb 1695  
PM 286 Plus 795  
PM 286 Plus 42 Mb 1275

\*All Systems include VGA, 1.2 Mb drive, 1 Mb RAM  
\*Prices after factory rebate

LTE Mdl 286/20 **COMPAQ** \$2685  
LTE Mdl 286/40 2990  
LTE Mdl 20 1990  
LTE Mdl 386S/20 with VGA CALL  
DESKPRO 386S 40mb H/Disk 2395  
DESKPRO 386S/20MHz 60mb H/Disk 2739  
DESKPRO 386/20E Mdl 1 3259  
DESKPRO 386/33L Mdl 120 7390  
DESKPRO 286N Mdl 1 1390  
DESKPRO 386N Mdl 1 1625  
SystemPro CALL

## New AST Notebook Computer

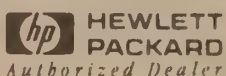
AST 386SX/20MHz with 40Mb H/Disk \$3195

## Authorized Service Center We service:

All IBM products, all Compaq products, Hewlett  
Packard LaserJet II, III, DeskJet, DeskWriter printers  
& Vectra QS systems, NEC SilentWriter 800 series  
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## MICROTIMES 1991 NC COMPUTER RESELLER GUIDE

Math-Coprocessor Bill  
Upgrade Kits John  
Operating Systems Supported: MS-DOS

Leading Brands Sold: Clones

Special Value Added: Service, support and warranties, return  
policy.

## ANOVA MICROSYSTEMS, INC.

Store Manager: Raymond Chuang

2380 Qume Dr., Ste #E

San Jose, CA 95131

(408)943-1660

Areas of Specialty:

In-House Expert:

System Integration

Raymond, Wen

Technical Support

Daniel, Peter

Operating Systems Supported: MS-DOS, NetWare

Leading Brands Sold: Samsung Monitor, Paradise VGA

Special Value Added: One year warranty, technical support.

## ARK SCIENCE CORP.

Store Manager: Freddy Chang

3012 Scott Blvd.

Santa Clara, CA 95054

(408)988-6192

Other Locations: San Francisco (415)731-2113

Areas of Specialty: Networking

In-House Expert: Freddy Chang, Grace Louli, Nick

Operating Systems Supported: MS-DOS, OS/2, UNIX/  
XENIX

Leading Brands Sold: ProARK 386-25Mhz, ProARK 386SX-  
16Mhz, Panasonic

Special Value Added: Service, technical support, one year  
warranties, one week return policy

## ASA COMPUTERS

Store Manager: Arvind Bhargana

370 Laurelwood Rd. #106

Santa Clara, CA 95054

(408)496-6853

Areas of Specialty: UNIX/ODT

In-House Expert: Arvind

Operating Systems Supported: MS-DOS, ODT

Leading Brands Sold: TEAC, Seagate, Hyundai

Special Value Added: Three year labor warranty, free service  
to upgrades, one year parts, three months on-site, free  
warranty for systems installed.

## B AND C COMPUTER VISIONS

Store Manager: Bruce Carso

3257 Kifer Rd.

Santa Clara, CA 95051

(408)749-1003

Operating Systems Supported: TOS(Atari)

Leading Brands Sold: Atari

## BAYWOOD DATA SECURITY

Store Manager: Gene Rosen

(408)354-7975

Areas of Specialty: Hard Disk File Backup Services, Off-site  
Disaster Storage, System Files Preventative Maint.

In-House Expert: Gene

Operating Systems Supported: MS-DOS

Leading Brands Sold: None

Special Value Added: Support for data security, repair,  
system evaluation for data security.

## BEST ELECTRONICS

Store Manager: Brad Koda

2021 The Alameda

San Jose, CA 95126

(408)243-6950

Areas of Specialty: Replacement parts for Atari from 2600  
game machine to ST Mega. No complete units

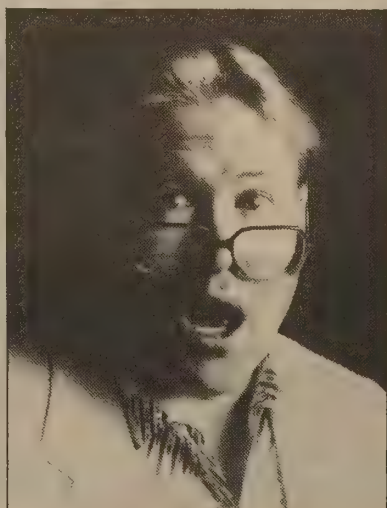
Operating Systems Supported: TOS(Atari)

## CENTRAL COMPUTER SYSTEMS

Store Manager: Saul Young

820 Kiely Blvd.

Santa Clara, CA 95051



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cow debunking, user advocacy, and inimi-  
table weirdness, check out Dvorak's Last  
Column, every month in *MicroTimes*.

**MICROTIMES** 5951 Canning Street, Oakland, CA 94609



# CHRISTMAS BLOWOUT!

## 386-33 MHz w/32K CACHE SYSTEM .....\$999

486-25 SYSTEM..\$2300 386-25 SYSTEM...\$860

386-25 w/64K CACHE 386-33 w/64K CACHE  
SYSTEM.....\$1020 SYSTEM.....\$1060

### ALL SYSTEMS INCLUDE:

- 1 MB RAM for 386, 286/16, 286/20 machines, 512KB for 286/12 machine
- 1.2 MB or 1.44 MB Floppy Drive
- 1:1 Interleave hard/floppy disk controller
- Math co-processor socket
- 2 serial, 1 parallel ports
- Real time clock w/battery backup
- 200W power supply
- 101-key enhanced keyboard
- One-year parts & labor warranty

### VIDEO UPGRADE:

- Mono monitor/card .....add \$90
- VGA monitor/card .....add \$365
- 14" 1024x768 Super VGA monitor (.28mm) w/ 1024x768 VGA Card (w/512KB)....add \$450

### HARD DRIVE UPGRADE:

- 20 MB, add \$180
- 40 MB, add \$235
- 66 MB, add \$280
- 100 MB, add \$470
- 200 MB, add \$770

|                                                                  |            |
|------------------------------------------------------------------|------------|
| GLI-286/12 SYSTEM:.....                                          | \$375      |
| GLI-286/20 SYSTEM:.....                                          | \$550      |
| GLI-386SX SYSTEM:.....                                           | \$700      |
| GLI-386/20 SYSTEM:.....                                          | \$929      |
| GLI-386/25 SYSTEM:.....                                          | \$860      |
| GLI-386/25C SYSTEM (w/64KB cache):.....                          | \$1020     |
| GLI-386/33 (w/32KB cache, Intel Cache Controller)/64K cache..... | \$999/1060 |
| GLI-486/25 SYSTEM.....                                           | \$2300     |

*A Name To Remember*

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Prices Subject To Change W/O Notice

## ACCESSORIES

84-key keyboard .....\$30  
101-key keyboard .....\$30

XT 150W power supply .....\$34  
Baby AT 200W power supply .....\$45  
AT 200W power supply .....\$48  
Mini Vertical case with 200W power supply'.....\$95  
Vertical case with 200W power supply .....\$150

Monochrome card w/printer port.....\$20  
Color graphics card w/printer port.....\$37  
EGA graphics card .....\$95  
VGA graphics card.....\$80  
Super VGA Oak 512K.....\$95  
Super VGA Trident 1 MB...\$165

AT 1 serial, 1 parallel card ...\$20  
XT/AT 1 serial cards .....\$17  
XT/AT game card .....\$14  
XT 1S/1P/1Game/Clock card. \$34  
XT 1S/1P/1Game/Clock/2F-ctrl card.....\$39  
XT/AT printer port .....\$13

XT 2x360KB floppy ctrl card w/cable.....\$16  
XT 2x360/720/1.2/1.44 ctrl w/cable.....\$37

WD compatible 2F/2H AT ctrl card MFM/RLL.....\$65/65  
DTC 7280 2F/2H AT ctrl card, 1:1 interleave.....\$100  
DTC 7287 2F/2H AT ctrl card 1:1 interleave.....\$120  
WD GEN XT ctrl card .....\$48  
WD 27X XT ctrl card.....\$58

Fujitsu 360KB/1.2MB .....\$55/60  
TEAC 360KB/1.2MB .....\$55/60  
Epson 1.44 MB .....\$60  
TEAC 720KB/1.44MB .....\$74/65

ST-225 20MB, 65ms.....\$185  
ST-251-1 40MB, 28ms .....\$250  
Maxtor 72 MB 28ms .....\$576  
NEC 66 MB 23ms .....\$280  
WD 40 MB IDE 25ms.....\$235  
Conner 100 MB IDE 18ms...\$470

12" monochrome amber monitor .....\$70  
14" flat screen amber/paper white monitor .....\$95  
14" VGA monitor.....\$310  
14" Multisync monitor.....\$430  
14" SVGA 1024x768 .28 dot \$360

PANASONIC printer 1124 ..\$278  
PANASONIC printer 1180 ..\$160  
COLORADO 40MB tape backup.....\$260  
LOGITECH serial mouse ...\$75  
LOGITECH bus mouse.....\$80  
Genius Mouse w/Dr. Halo III \$25  
2400 baud internal modem ..\$75  
2400 baud external modem...\$90

CASH PRICES

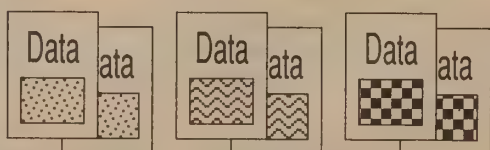


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Fax: 415-543-2615

### MICROTINES 1991 NC COMPUTER RESELLER GUIDE

(408)241-0185

#### Areas of Specialty:

Desktop Publishing (Ventura)  
Networking  
Microsoft Window

#### In-House Expert:

John  
Sherry Yeung  
Frank Chen

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** Everex, MicroSoft, Micronics

**Special Value Added:** Training class: WordPerfect 5.1, building and maintaining your PC, by an experienced guest lecturer, 1 year warranty, parts and labor.

#### CHICOTEC

Store Manager: Ken Lao  
3048 Scott Blvd.  
Santa Clara, CA 95054  
(408)986-8998

**Areas of Specialty:** Network

**In-House Expert:** David Shim

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Everex, Mylex

**Special Value Added:** Service, tech support, warranties.

#### COMPUTER ART

Store Manager: Tim Tran  
424 S. Main St.  
Milpitas, CA 95035  
(408)946-7852

**Areas of Specialty:** Novell, Unix (SCO), Hardware (all)

**In-House Expert:** Tim

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Special Value Added:** Good warranty policy, technical support, return policy.

#### COMPUTER MARKETPLACE

Store Manager: Robert Kushner  
16175 Monterey Rd. #4  
Morgan Hill, CA 95037  
(408)778-5200

**Operating Systems Supported:** MS-DOS, OS/2, CP/M, AmigaDOS, Mac OS, TOS(Atari), UNIX/XENIX

**Special Value Added:** Trade show promoter

#### COMWARE MICRO INC.

Store Manager: David  
2247 Ringwood Ave.  
San Jose, CA 95131  
(408)433-0200

**Areas of Specialty:**

System  
Network  
Unix

**In-House Expert:**

David, Carl  
David  
Carl

**Operating Systems Supported:** MS-DOS, UNIX/XENIX, NETBIOS

#### COMY TECHNOLOGY, INC.

Store Manager: Harold Jang  
2938 Scott Blvd.  
Santa Clara, CA 95054  
(408)982-9230

**Areas of Specialty:** Simm/Sipp Module, VGA Card, High Resolution Monitor and Card

**In-House Expert:** Harold Jang

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** Genoa, Samsung, DCI (Desk-Top Computing, Inc.)

**Special Value Added:** Quality service, quick support

#### CONVEX RESOURCES, INC.

Store Manager: Armid Majer  
984 Hanson Ct.  
Milpitas, CA 95035  
(408)263-8889

**Areas of Specialty:**

Novell Networks  
CAD  
Imaging/Publishing

**In-House Expert:**

A. Majer  
A. Majer  
A. Belafiore

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** Everex, Hewlett-Packard, NEC  
**Special Value Added:** Pick up and delivery.

#### COPO INFOSYSTEMS AMERICA

Store Manager: Roy Chang  
2077 O'Toole Ave.  
San Jose, CA 95131  
(408)948-9007  
1(800)675-2676

**Areas of Specialty:** Compatible Computer Systems, Wholesale on motherboards and peripherals, Networking Solutions

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, Novell, CAD

**Leading Brands Sold:** Copo Systems RC2-VIII, MS DOS, Windows 3.0

**Special Value Added:** Free line support from our hardware and software engineers (1 year parts and labor warranty.)

#### DATA CHAIN, INC.

Store Manager: Po Yin Chu  
3350 Scott Blvd. Bldg. 9B  
Santa Clara, CA 95054  
(408)988-4677

**Areas of Specialty:** IBM PC Compatible Hardware

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

#### DATA-ONE

Store Manager: Tom Feng  
940 Rincon Circle  
San Jose, CA 95131  
(408)434-1002

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** 386-System, Monitors, Drives

#### DESIGN SERVICES

Store Manager: Robert Stokes  
737 Hamann Dr.  
San Jose, CA 95117  
(408)246-880

**Areas of Specialty:**

Service  
Software

**In-House Expert:**

Robert Stokes  
George Goldsmit

**Operating Systems Supported:** Mac OS

**Leading Brands Sold:** Macintosh, Laserview, Best Scanners

**Special Value Added:** On-site service, 90 day warranty, large service stock.

#### DOMINO SELF SERVICE CENTER

Store Manager: Eden  
976 Hanson Ct.  
Milpitas, CA 95035  
(408)946-6991

**Areas of Specialty:** Technical Support

**In-House Expert:** Eden

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Everex, Hyundai, Toshiba

**Special Value Added:** Service, Support, Return Policy

#### EDIMAX COMPUTER CO.

Store Manager: Terry Tsai  
3350 Scott Blvd., Bldg. 9A  
Santa Clara, CA 95054  
(408)496-1105

**Areas of Specialty:** LAN, System, Main Board

**In-House Expert:** Lian

**Operating Systems Supported:** MS-DOS, UNIX/XENIX, Netware

**Leading Brands Sold:** Edimax Arcnet, Ethernet, Mainboard

#### ELITE COMPUTERS AND SOFTWARE

Store Manager: Thomas Armes  
10601 South De Anza Blvd. #305  
Cupertino, CA 95014  
(408)725-1556

**Other Locations:** Emeryville

**Areas of Specialty:** Hardware, Desktop Publishing, Networks

**Operating Systems Supported:** Mac OS



# OUR COMPLETE SYSTEM

## BEST PERFORMANCE, BEST PRICE

**486-25 MHz**  
**128K Cache**

4 MB On Board  
Ext. 16 MB

**\$3160**

**386-33 MHz**  
**64K Cache**

2 MB On Board,  
Ext. 8 MB

**\$1865**

**386-25 MHz**  
**64K Cache**

2 MB On Board,  
Ext. 8 MB

**\$1770**

**386-25 MHz**

2 MB On Board, Ext. 8 MB

**\$1620**

### ALL SYSTEMS INCLUDE:

- CPU & Memory As Indicated
- Teac 1.2 or 1.44 FDD
- IDE for 2FDD/2HDD
- 2 S/1 P/1 C
- AT Case With 230W PS
- Keytronic 101 Keyboard
- 40 MB, 28 ms HARD DISK
- PARADISE, 1024x768, 256K With Window 3.0 Driver
- AAMAZING SUPER VGA 14" 1024x768, .28

**ONE YEAR WARRANTY**  
**Parts & Labor**  
**On All Systems**

**386SX-16 MHz**

1 MB On Board, Ext. 8 MB

**\$1365**

**286-20 MHz**

1 MB On Board, Ext. 8 MB

**\$1310**

**286-16 MHz**

1 MB On Board, Ext. 4 MB

**\$1175**

**286-12 MHz**

1 MB On Board, Ext. 4 MB

**\$1120**

**PLEASE CALL FOR MORE UNLISTED PRODUCTS AND PRICES**



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### MOTHERBOARDS

W/CPU O K

|                         |               |
|-------------------------|---------------|
| 486-25 MHz, 128K Cache. | <b>\$1970</b> |
| 386-33 MHz, 64K Cache.  | <b>795</b>    |
| 386-25 MHz, 64K Cache.  | <b>700</b>    |
| 386-25 MHz (Opti)       | <b>550</b>    |
| 386SX-16 MHz (C&T).     | <b>355</b>    |
| 286-20 MHz (C&T)        | <b>300</b>    |
| 286-16 MHz (VLSI)       | <b>165</b>    |
| 286-12 MHz (VLSI)       | <b>110</b>    |
| XT-10 MHz               | <b>60</b>     |

### HARD DRIVES

|                      |              |
|----------------------|--------------|
| ST225, 20 MB         | <b>\$190</b> |
| ST251-1, 40 MB       | <b>260</b>   |
| W.D. 95044, 43 MB.   | <b>245</b>   |
| CP3044, 42 MB        | <b>310</b>   |
| Mini S 7080A, 80 MB  | <b>465</b>   |
| CP 3104, 105 MB      | <b>520</b>   |
| Toshiba 2340, 105 MB | <b>520</b>   |
| NEC 5655, 150 MB     | <b>755</b>   |
| Maxtor 339 MB        | <b>1335</b>  |

### MONITORS

|                     |             |
|---------------------|-------------|
| 12" Amber MDA       | <b>\$78</b> |
| 14" Amber MDA       | <b>100</b>  |
| 14" White VGA       | <b>115</b>  |
| AAmazing VGA .28    | <b>295</b>  |
| Everview Super VGA  | <b>325</b>  |
| AAmazing Super VGA. | <b>335</b>  |
| NEC 2A Multi VGA    | <b>485</b>  |
| NEC 3D Multi VGA    | <b>650</b>  |
| Seiko 1450 VGA      | <b>660</b>  |

### VIDEO CARDS

|                     |             |
|---------------------|-------------|
| Herc/Color/G/P      | <b>\$30</b> |
| PVGA 640x480        | <b>80</b>   |
| PVGA 800x600, 256K  | <b>85</b>   |
| PVGA 1024x768, 512K | <b>112</b>  |
| TVGA 1024x768, 512K | <b>117</b>  |
| TVGA 1024x768, 1MB  | <b>170</b>  |
| ATI 1024x768, 512K  | <b>202</b>  |
| ATI/Mouse, 512K     | <b>237</b>  |
| V7 VRAM, 512K       | <b>395</b>  |

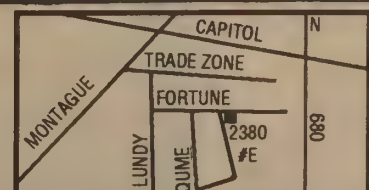
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Prices Subject To Change W/O Notice



**Leading Brands Sold:** Apple/Macintosh, Radius, RasterOps  
**Special Value Added:** Leasing, financing, consulting, 100 day warranty and 1 year warranty plus all authorized warranties.

**ELITE INDUSTRIES, INC.**

Store Manager: Paul Jair  
 1542 Montague Exwy.  
 San Jose, CA 95131  
 (408)922-0808

**Other Locations:** 9823 Pacific Heights Blvd. Ste. K, San Diego, CA 95151

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
| 486-33 MHz Motherboard     | Mission Chen            |
| 386-33 MHz Motherboard     | Paul Jair               |
| 386SX-16MHz,               | Kevin                   |
| 20 MHz Motherboard         |                         |

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Microtel

**Special Value Added:** Service, warranties, return policy.

**G & C COMPUTER PRODUCTS, INC.**

Store Manager: George Chang  
 1977 O'Toole Ave., Ste. B105  
 San Jose, CA 95131  
 (408)954-0982

**Operating Systems Supported:** CP/M

**Leading Brands Sold:** GC-325BEX, GC-325AEX, GC-33ACX

**Special Value Added:** Service, support, return policy

**GREAT ADVANCE TECHNOLOGY CORP.**

Store Manager: Joseph  
 5615 Chesbro Ave., Ste. 120  
 San Jose, CA 95123  
 (408)225-1123

**Other Locations:** Vancouver, WA

**Areas of Specialty:** Systems/Network

**In-House Expert:** Jessi Niou

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Special Value Added:** Service, support, warranties, return policy

**GREY MATTER RESPONSE, INC.**

P.O. Box 3147  
 Santa Cruz, CA 95063  
 (408)427-3678

**Areas of Specialty:** Graphic Interface Fax Software

**Operating Systems Supported:** MS-DOS, Mac OS

**GSP (GLOBAL SPAN PRODUCTS)**

Store Manager: Sam Bakke  
 P.O. Box 145  
 Campbell, CA 95009  
 (408)379-0187

**Areas of Specialty:** Cable identification devices manufactured for computer cable harness assemblywork

**Operating Systems Supported:** MS-DOS

**GUENTHER COMPUTER PRODUCTS**

Store Manager: Nan Guenther  
 312 Locust St.  
 Santa Cruz, CA 95060  
 (408)458-9404

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
| IBM Compatible Systems     | Graham P. Kenville      |
| IBM Compatibles/MIDI       | Roy Shaffer             |

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Logitech, Panasonic, Genoa

**Special Value Added:** 90 day replacement warranty (first 90 days of the 1 year manufacturers warranty.)

**H.D. COMPUTERS**

Store Manager: Andy Hsu  
 3325 Kifer Rd.  
 Santa Clara, CA 95054  
 (408)720-1967

**Other Locations:** Sacramento

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
| 486-25MHz System           | Andy Hsu                |
| 386-33Mhz System           | Patrick Seong           |

386-25 or 20Mhz System Tong Dieu

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** HD 486-25MHz, 386-33MHz, 386-SX System

**Special Value Added:** One year warranty parts and labor included, thirty day money back guarantee. Excellent tech support.

**HARD DISK SYSTEMS**

Store Manager: F.W. Lee  
 2798C So. Bascom Ave.  
 San Jose, CA 95124  
 (408)559-1568

**Areas of Specialty:** Perstor Higher Capacity HD CTLRS, Sun-Micro Storage Systems, Fora Laptops 386SX

**In-House Expert:** F.W. Lee

**Operating Systems Supported:** MS-DOS

**Special Value Added:** One year warranty limited MFR defects.

**HI-TECH USA**

Store Manager: Robert Liu  
 1558 and 1562 Centre Pointe Dr.  
 Milpitas, CA 95035  
 (408)262-8688

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
|----------------------------|-------------------------|

Systems and Video Cards Sean

Database, Hard Drives, Systems Lu

Data Communications Daniel

and Networking

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Special Value Added:** 80% technical support staffs earned M.S. degree in Computer Science. One year warranty/parts and labor. Excellent quality.

**HSC ELECTRONIC SUPPLY**

Store Manager: Greg Thorpe  
 3500 Ryde St.  
 Santa Clara, CA 95051  
 (408)732-1573

**Other Locations:** Sacramento, Cotati

**Areas of Specialty:** Electronic Components and Equipment, Computers, Parts

**ICS COMPUTER**

Store Manager: Mei Lin  
 900 S. Winchester Blvd. #8  
 San Jose, CA 95128  
 (408)241-9787

**Areas of Specialty:** Hardware/Software, MS-DOS

**In-House Expert:** Eric Lin, Paul, Ben

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** ICS 386/33

**Special Value Added:** On site service, warranty 1 year parts and labor.

**JDR MICRODEVICES**

Store Manager: Dan Urioste  
 1256 S. Bascom  
 San Jose, CA 95128  
 (408)947-8881

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
|----------------------------|-------------------------|

PC Upgrades Ray Bellantoni

DOS Compatible Software Matt Vernon

**Leading Brands Sold:** Intel, Microsoft, JDR

**Special Value Added:** 30 day money back return. 24 hour technical support on BBS. 1 year warranty all products, 2 year warranty on JDR product on store technicians.

**JEEZ COMPUTER**

Store Manager: Charles Lee  
 2370 A Walsh Ave.  
 Santa Clara, CA 95051  
 (408)727-0788

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
| Novell NetWare             | Charles Lee             |
| Hardware                   | Jeff Lee                |

Small business database Charles Lee  
 system design

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, Novell

**Leading Brands Sold:** Novell NetWare, Supertron Super VGA, DF1 Add-on cards

**Special Value Added:** One year warranty, parts & labor; immediate telephone support; delivery of purchase over certain amount

**JEMINI ELECTRONICS**

Store Manager: J. Kim  
 3400 De La Cruz Blvd. Unit T  
 Santa Clara, CA 95054  
 (408)727-9986

|                            |                         |
|----------------------------|-------------------------|
| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
|----------------------------|-------------------------|

Graphic Design H/W and S/W Andy Kim

Image processing Shawn Koo

Instant Sign Maker Andy Kim

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** Hercules graphic station, Sigma Design, CALCOMP

**MAXB TECHNOLOGIES, INC.**

Store Manager: P. Wong  
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 Santa Clara, CA 95054  
 (408)496-6297

**Operating Systems Supported:** MS-DOS, OS/2

**Leading Brands Sold:** MT333, MT425, MT433

**Special Value Added:** On line technical support, one year parts and labor complete warranty, 30 day money back guarantee, 24 hour rma turn-around.

**MICRO DISTRIBUTION CENTER**

Store Manager: Roger Wang  
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 Santa Clara, CA 95054  
 (408)492-1715

|                            |                         |
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| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
|----------------------------|-------------------------|

CD Rom Kam Wang

Networking Service Adams Davidson

System troubleshooting Timothy Lo

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, X Windows

**Leading Brands Sold:** Goldstar, Chinon, Fountain

**Special Value Added:** Networking/CD-Rom library

**MICRO MANAGEMENT ASSOCIATES**

Store Manager: Thomas J. Cholipski  
 10200 Miller Ave. #132  
 Cupertino, CA 95014-3439  
 (408)446-1539

|                            |                         |
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| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
|----------------------------|-------------------------|

dBase/Fox Base Thomas J. Cholipski

Novell Ted Maguire

Unix Thomas J. Cholipski

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** Novell, ALR, SCO Unix

**Special Value Added:** Unix, DOS and Novell connectivity. NFS and TCP/IP support.

**MIRACLE COMPUTERS, INC.**

Store Manager: Larry Perea  
 780 Montague Expwy. #202  
 San Jose, CA 95131  
 (408)435-8177

|                            |                         |
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| <b>Areas of Specialty:</b> | <b>In-House Expert:</b> |
|----------------------------|-------------------------|

Panasonic Service Shawn Yuan

Star Micronics Service Larry Perea

Citizen Service Charlie Cheng

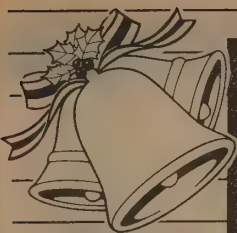
**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** Panasonic, Video Seven, TEAC

**MR. COMPUTER, INC.**

Store Manager: Kwong Chan  
 774 Charcot Ave.



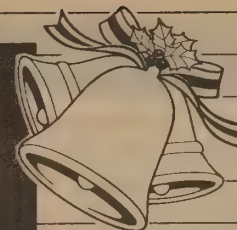


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220 Watt P/S  
101 Enhanced Keyboard

## 386SX-16 MHz

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1:1 Hard/Floppy IDE Controller  
Multi-IO Card  
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200 Watt P/S  
101 Enhanced Keyboard

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**In-House Expert:** Andy/Peter  
Peter  
Peter

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**Special Value Added:** Technical Support, 1 year warranty-  
new replacement parts under warranty.

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(408)257-4249

**Areas of Specialty:** 80486 Systems  
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Cache Systems (DX)  
80286-SX Systems; Laptop

**In-House Expert:** Mr. Paul Tsai  
Mr. King Yen  
Mr. David Chan

**Operating Systems Supported:** MS-DOS OS/2 UNIX/XENIX  
**Special Value Added:** One year parts and labor carry-in  
warranty for all systems and peripherals

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Milpitas, CA 95035  
(408)946-9706

**Areas of Specialty:** PC Systems, IBM compatible, Network-  
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**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
XENIX

**Leading Brands Sold:** NEC, TEAC, Toshiba  
**Special Value Added:** One year warranty

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Santa Clara, CA 95054  
(408)727-5556; Fax (408)727-5558; BBS(408)727-5558

**Areas of Specialty:** IBM AS/400 and S/3X and PC Networking, Conversion to/from  
IBM AS/400 and S/3X from/to PC LAN, AS/400 and S/3X  
and PC LAN custom software

**In-House Expert:** James W. McMann and David Kamp

**Operating Systems Supported:** MS-DOS, CP/M, Mac OS,  
OS/400, SSP CPF

**Leading Brands Sold:** Acer, Novell, AST

**Special Value Added:** Training, support, custom software  
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custom interface LAN to/from IBM midrange.

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San Jose, CA 95151  
(408)970-8488

**Areas of Specialty:** LANs  
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Unix/XENIX

**In-House Expert:** Sean Rhinehart  
Kenneth Xu

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
XENIX

**Leading Brands Sold:** 25 MHz 386, 12 MHz, 286

**Special Value Added:** One year warranty parts and labor. 30  
day money back guarantee on-site installed.

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San Jose, CA 95117  
(408)769-3838

**Other Locations:** 165 San Lazaro Ave., Sunnyvale, CA 94088

**Areas of Specialty:** IBM Compatible 286, 386, 486  
Novell Networking  
System Integration

**In-House Expert:** Jason Nguyen  
Joseph Wakefield  
Gary Catalano

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
XENIX

**Leading Brands Sold:** TEAC Floppy Disk Drive, Seagate  
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**Special Value Added:** Walk in service, on-site service also  
available. 2 year labor and 1 year part standard policy. 7  
days incompatibility return.

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Store Manager: Stephen Rothenberg  
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**Areas of Specialty:** Database Development, Network  
Recommendations/installation, Word Processing

**Operating Systems Supported:** MS-DOS

**Special Value Added:** Full service company: training, phone  
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tation and development.

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San Jose, CA 95131  
(408)432-9802

**Areas of Specialty:** Hardware  
Accounting Systems

**In-House Expert:** Ray Tetreault  
Gabrielle Tetreault

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** RT IBM 286/386 compatibles

**Special Value Added:** One year parts and labor warranty.  
Provide unlimited phone support-DOS training held at this  
facility.

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(408)224-8575

**Areas of Specialty:** Custom Repair  
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**In-House Expert:** My Young  
Scot Halvorson

**Operating Systems Supported:** TOS(Atari), Atari 8 bit

**Leading Brands Sold:** Atari ST, Atari 8 Bit

**Special Value Added:** 90 day warranty

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**Other Locations:** 630 Broadway, Seaside, CA 93955  
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**Areas of Specialty:** Computer Systems, Computer Hardware,  
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**Leading Brands Sold:** Sans Egal, Panasonic, Seagate

**Special Value Added:** One year warranty on everything.

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Store Manager: David Shaffer  
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**Areas of Specialty:** Databases, Graphics, Finance

**In-House Expert:** David Shaffer

**Operating Systems Supported:** Mac OS

**Leading Brands Sold:** Symantec, Brøderbund, Microsoft

**Special Value Added:** Service-try anything out prior to  
purchase; Basic Mac Training; Free delivery; 30 day return  
policy; hotline support for user questions.

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**In-House Expert:** Jamil Sayed

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**Leading Brands Sold:** SS 386-33, SS 386-SX, SS 286-12  
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on-site service available

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**Areas of Specialty:** IBM Compatible

**In-House Expert:** Jim

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
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**Leading Brands Sold:** Transdata portables, Microscience  
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**Special Value Added:** Direct line technical support, on site  
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(408)244-5600

**Areas of Specialty:** Fax, LAN-Fax, Arcnet, Ethernet, Video  
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**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** EZ-Fax, Taxan, Jovian Logic

**Special Value Added:** Telephone service, 90 day to one year  
warranty. Return with restock fee.

#### SYSPER TECHNOLOGIES, INC.

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San Jose, CA 95131  
(408)441-6604

**Areas of Specialty:** High performance system  
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CAD/CAM systems  
Custom Configuration

**In-House Expert:** Abdul  
Burney  
Yakoob

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/  
XENIX

**Leading Brands Sold:** Sysper 386 SX, Orchid 386-33MHz,  
Micronics 386

**Special Value Added:** 30 day money back, one year parts  
and labor warranty, lifetime technical support, custom  
configuration.

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Store Manager: Yvonne Jones  
20 Harold #40  
San Jose, CA 95117  
(408)866-0343

**Areas of Specialty:** UNIX

**In-House Expert:** Bill Gitow

**Operating Systems Supported:** UNIX/XENIX

**Leading Brands Sold:** SCO, Stallion, Archive

**Special Value Added:** Consulting, training

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Santa Clara, CA 95050  
(408)732-2244

**Areas of Specialty:** Windows  
Unix/XENIX  
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**In-House Expert:** C.T.  
Wayne  
C.T.

**Operating Systems Supported:** MS-DOS, UNIX/XENIX

**Leading Brands Sold:** Panasonic, NEC, TECH

**Special Value Added:** Computer tuneup. On-site service

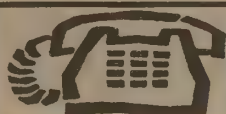
#### THE COMPUTER PLACE

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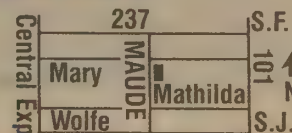


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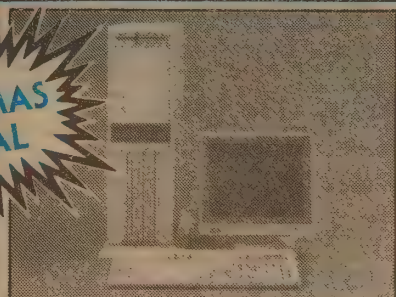
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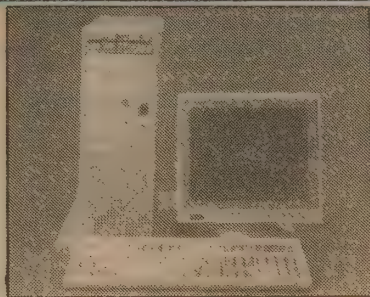
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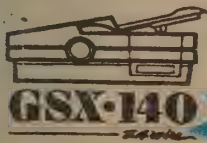
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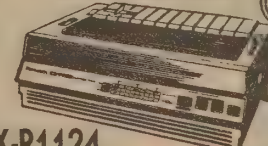
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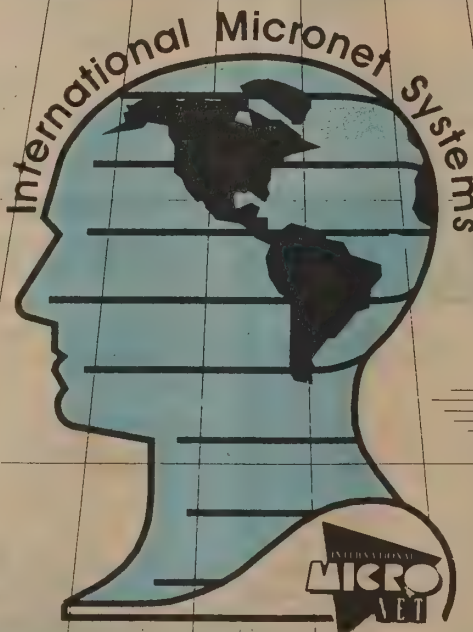
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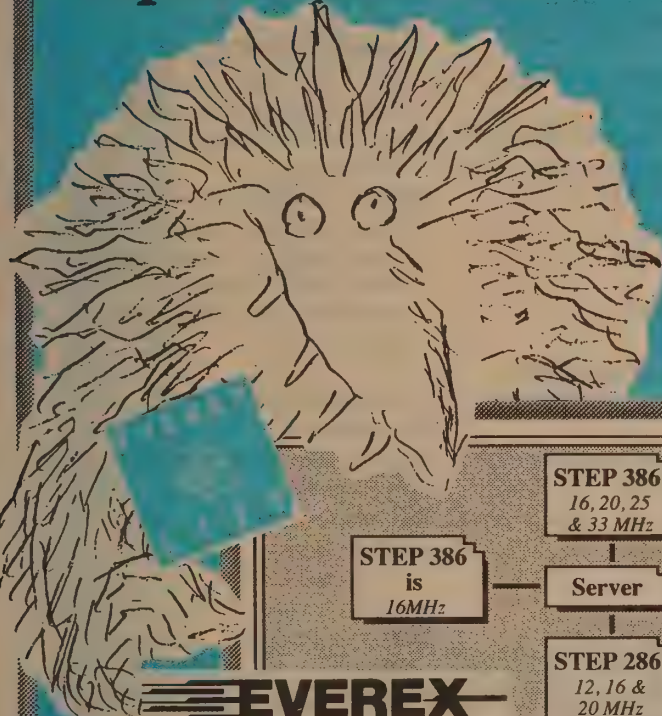
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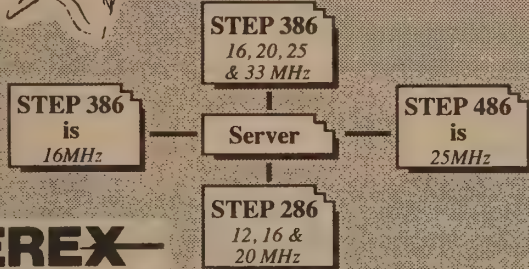
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What are people saying about Everex STEP computers? *PC WORLD* places the STEP 386 "smack in the middle of the winner's circle." *COMPUTER CURRENTS* "can't say enough good things about it. Performance was unbelievable." *COMPUTER WORLD* says "the STEP 386 earns the highest rating they've ever recorded." John Dvorak, columnist for *PC MAGAZINE*, is hooked on the STEP 386 claiming, "it just blew all my benchmark tests off the scale." For Dvorak, the STEP 386 is "the absolute fastest" - "the one to watch." Where does that leave the competition? *PC WEEK* has Everex "outdistancing even speed merchants such as the Compaq Deskpro 386/20 and the ALR Flex Cache 20386, while basically leaving IBM's Model 80 in the proverbial technological dust." What about the Everex STEP 286? *MONEY MAGAZINE* hails the "heavyweight computer muscle" of the STEP 286/16 and places it at the top of their ideal office catalogue. Economical? When it comes to delivering high quality at an economical price, *PC MAGAZINE* claims "the only place where Everex skimps is the price." With outstanding performance and economical pricing, Everex "seems to have it all."

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### VINES USER SEMINAR - EDU101

Program Length: 1 Day  
Price: \$395.00

#### Objective:

The overall objective of this course is to give the student a solid foundation in the use of VINES, enhancing their knowledge and efficiency; thereby improving their job performance and satisfaction. After taking the seminar, a user who had no previous knowledge, should be able to use the Banyan system effectively.

### VINES ADMINISTRATION - EDU102

Program Length: 3 Days  
Price: \$1,095.00

#### Objective:

The objective of this program is that the participant, upon completion, be able to set up, maintain and administer a Banyan network. The Administrator will be able to add and delete users; maintain lists, control resources and security; configure workstations, address server operations and do basic troubleshooting.

### ADVANCED VINES ADMINISTRATION & PLANNING - EDU201

Program Length: 3 Days  
Price: \$1,295.00

#### Objective:

At the end of the course, the participant will be able to implement and administer many configurations of multiple server VINES networks, with both LAN and WAN communications links between servers.

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### Specialists in ...

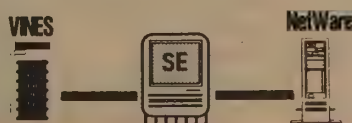
#### Banyan/Novell



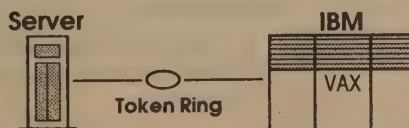
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#### Banyan/Novell Mac Connectivity



#### Mainframe/Remote Connectivity



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| NEW XT HD MFM CONTROLLER.....                      | 29               |
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ON HOLIDAY  
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THAT YOU  
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AND A CASE OF  
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## 1991 NORTHERN CALIFORNIA COMPUTER RESELLER GUIDE

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(408)980-8628

**Areas of Specialty:** In-House Expert:  
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Networking James Chu

**Operating Systems Supported:** MS-DOS,  
OS/2, UNIX/XENIX, Novell

### THE OTHER STORE

Store Manager: Jody Cosenza

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(408)294-4678

**Areas of Specialty:** Computer Hardware,  
Computer Software

**In-House Expert:** John Garcia

**Operating Systems Supported:** MS-DOS,  
OS/2, UNIX/XENIX

**Leading Brands Sold:** Panasonic, Citizen,  
Tos Computers

**Special Value Added:** 1 year warranty parts  
and labor, telephone support, training

### TOWER COMPUTER INC.

Store Manager: Tony Nguyen

1937-B Tully Rd.

San Jose, CA 95122

(408)929-8638

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** 386-25MHz, IBM  
Compatibles

### USM DISTRIBUTORS

Store Manager: Ramon

3070 Scott Blvd.

Santa Clara, CA 95054

(408)980-0602

**Other Locations:** Fremont, So. San  
Francisco, Brea

**Areas of Specialty:** Hardware, Networking,  
Name Brand Motherboard

**Operating Systems Supported:** MS-DOS,  
OS/2

**Leading Brands Sold:** AMI, Pixel Ultimate  
VGA, USM Faxcard

**Special Value Added:** Special customization  
of systems for CAD, CAM, and Novell.  
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TOS(Atari), UNIX/XENIX

**Leading Brands Sold:** Seagate, Maxtor,  
Quantum

**Special Value Added:** We offer 30-90 day  
warranty of certain products.

### WHOLE EARTH ACCESS

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(408)554-8300

**Other Locations:** Yes

**Operating Systems Supported:** MS-DOS,  
OS/2, AmigaDOS, Mac OS, UNIX/XENIX,  
Novell

**Leading Brands Sold:** Apple, Compaq, IBM

**Special Value Added:** Training classes,  
service support, manufacturer warranties,  
return policy, leasing (personal and  
business).

### WIT, WANG INT'L TRADE

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San Jose, CA 95131

(408)435-0188

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OS/2, UNIX/XENIX

**Special Value Added:** Service, support,  
warranties, return policy

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Store Manager: David Schaefer

105 N. Santa Cruz Ave.

Los Gatos, CA 95030

(408)354-1210

**Areas of Specialty:** In-House Expert:  
XENIX/Unix Rodger Williams

MIDI-Music Software Mike Clawson

Hewlett-Packard Computers Kevin Kirks

**Operating Systems Supported:** MS-DOS,  
OS/2, CP/M, Mac OS, TOS(Atari), UNIX/  
XENIX, Hewlett-Packard, New Wave

**Leading Brands Sold:** Hewlett-Packard,  
Apple, Everex

**Special Value Added:** Twenty-four hour  
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(408)244-5600

**Areas of Specialty:** In-House Expert:  
Custom Configuration Jackson Yuen

Peripherals Any sales person

Novell Laroy Smith

**Operating Systems Supported:** MS-DOS,  
Novell

**Leading Brands Sold:** Ez-Fax Card,  
Computer, Ez-Fax LAN

**Special Value Added:** Buy low/sell low.

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San Rafael, CA 94903

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**Areas of Specialty:** CAD Conversion Utilities

**In-House Expert:** Walt Melton

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Auto-Trace DOS,  
Auto-Trace Lattice, Auto-Trace Unix  
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**Special Value Added:** We are a start-up  
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**In-House Expert:** John Catalano



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- 486 EISA SERVERS
- WORKSTATIONS
- NETWORK SOFTWARE UPDATES
- INSTALLATION BY CERTIFIED PROs
- SERVICE
- COMPLIMENTARY NETWORK CONSULTING

### TOTAL SOLUTION ...

### SERVERS AND SERVICE ...

Each Server has a **Mylex 32 Bit EISA Bus Motherboard, Ethernet Card and a 4 MB Cache SCSI Disk Controller.** It is built in a Full Tower Case with 300 Watt Power Supply, 300 MB SCSI IMPRIMUS Drive, 150 MB Archive Tape, 2S/1P/1G Port, and a 101 Key Keyboard.

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|----------|------------|----------|------------|
| 11 MIPS  | 11.9 MIPS  | 14 MIPS  | 14.9 MIPS  |
| 486-25   | 486-25     | 486-33   | 486-33     |
| NO CACHE | 128K CACHE | NO CACHE | 128K CACHE |

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## PERSONAL COMPUTING MACHINES

|                                 |                      |       |
|---------------------------------|----------------------|-------|
| Include                         | 286-12 .....         | \$620 |
| 1 MB RAM                        | 386SX .....          | 840   |
| 42 MB Hard Drive                | 386-25 .....         | 1150  |
| 101 Keyboard                    | 386-33 w/Cache ..... | 1310  |
| 1.2 or 1.44 Teac FDD            | 486-25 w/Cache ..... | 2400  |
| 2 Serial/1 Parallel/1 Game Port |                      |       |
| Case/Power Supply               |                      |       |

ADD: \$90 for Mono Display/\$375 for VGA Display (Card & Monitor)

WORKSTATION: 486-25 w/128K Cache Mylex Motherboard ... **\$6,500**

## PERIPHERALS

|                                                              |               |                             |                           |
|--------------------------------------------------------------|---------------|-----------------------------|---------------------------|
| 12" MONO MONITOR .....                                       | \$61          | Drives w/Adapter            |                           |
| <b>MOTHERBOARDS:</b> 286-12—\$110, 386 SX—\$360,             |               | 40 MB W.D. IDE .....        | \$250                     |
| 386-25—\$595, 386-33C—\$810, 486-25—\$1800                   |               | Conner 100/200 MB IDE ..... | \$480/\$780               |
| <b>VIDEO CARDS:</b> VGA—\$85, MGP—\$23                       |               | 1.2 or 1.44 MB FD .....     | \$64.                     |
| <b>CASES:</b> .....                                          | Baby AT—\$85, | <b>KEYBOARDS:</b> .....     | 101 Key—\$38, 84 Key—\$28 |
| Tower-Full—\$190, Mini—\$112                                 |               | <b>SIMM/SIPP:</b> .....     | 256K-8—\$15, 1 Meg-8—\$47 |
| <b>MONITORS:</b> 14" Mono—\$105, VGA—\$315/350 12" Mono—\$70 |               |                             |                           |

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# MEMORY • UPGRADES

## HP Laser Jet II, IID, IIP & III

| 1M    | 2M    | 4M    |
|-------|-------|-------|
| \$109 | \$149 | \$239 |

## IBM Laser Printer 4019 & 4019E

| 1M    | 2M    | 3.5M  |
|-------|-------|-------|
| \$119 | \$169 | \$239 |

## Epson EPL-6000 • Toshiba Pagelaser 6 • NCR 6435 • AT&T 593 Packard Bell PB9500 • Mannesmann Tally 905

| 1M    | 2M    | 4M    |
|-------|-------|-------|
| \$119 | \$169 | \$269 |

## Panasonic Laser Printer KX-4420/4450i

| 1M    | 2M    | 3M    | 4M    |
|-------|-------|-------|-------|
| \$129 | \$179 | \$219 | \$279 |

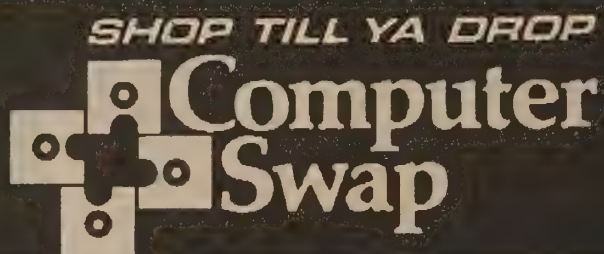
## Toshiba Laptop

|            |     |       |
|------------|-----|-------|
| T1200XE    | 2MB | \$219 |
| T1000SE/XE | 1MB | \$219 |
| T1000SE/XE | 2MB | \$319 |

Avia Technologies, Inc. 935 Benecia Ave., Sunnyvale CA 94086  
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-  **SANTA CLARA COUNTY FAIRGROUNDS**  
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-  **ALAMEDA COUNTY FAIRGROUNDS**  
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-  **COW PALACE**  
San Francisco, CA • January 5, 1991
-  **SANTA CLARA COUNTY FAIRGROUNDS**  
San Jose, CA • January 19, 1991
-  **COW PALACE**  
San Francisco, CA • February 16, 1991

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## 1991 NORTHERN CALIFORNIA COMPUTER RESELLER GUIDE

**Operating Systems Supported:** MS-DOS, Mac OS  
**Leading Brands Sold:** QMS, Sigma Designs, Microsoft  
**Special Value Added:** Macintosh corporate consulting and support  
Publishers of Businessmac TM, Consultants Newsletter.

### COMPUTERTIME

Store Manager: Fred Shepherd  
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(415)459-8080

**Areas of Specialty:** AutoCAD, Desktop Publishing, Word Processing  
**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX, Novell  
**Leading Brands Sold:** AutoCAD, Novell, Everex  
**Special Value Added:** Rentals, training, service, one year parts and labor warranty, service contract.

### CON-SOFT

Store Manager: John T. Kosewic, Owner  
826 "D" Street  
Petaluma, CA 94952  
(707)763-8043  
FAX (707)762-3274

**Areas of Specialty:** Construction Software, Estimating Software  
**In-House Expert:** John T. Kosewic  
**Operating Systems Supported:** MS-DOS  
**Leading Brands Sold:** Caliber, Compac, Citizen  
**Special Value Added:** Service, on-site training, classes, telephone support, updates, job coster, estimator

### DISCOUNT MICRO WORLD, INC.

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**Areas of Specialty:** Spreadsheet software, Database software, Word processing software  
**Operating Systems Supported:** MS-DOS, OS/2, Mac OS, UNIX/XENIX, Some MVS/  
Mainframe Software  
**Leading Brands Sold:** Microsoft, Ashton Tate, WordPerfect  
**Special Value Added:** We process phone orders. We ship many products same day. We have an in-house demo computer station for software.

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(415)499-9699

**Areas of Specialty:** Software Duplication, Software Assembly/ Full Turnkey, Quality Assurance  
**In-House Expert:** Ms. Marti Heida, Ms. Marti Heida, Mr. Michael Reveile  
**Operating Systems Supported:** All formats available  
**Leading Brands Sold:** JVC, Sony, 3M  
**Special Value Added:** 100% error free workmanship, quick turn around, quality assured, full turnkey.

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Store Manager: Lawrence Sayre  
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Santa Rosa, CA 95404  
(707)524-3737

**Areas of Specialty:** Networks, Multimedia and Desktop Publishing, Programming  
**In-House Expert:** Paul Meilleur, Lawrence Sayre, Jay Balakrishnan  
**Operating Systems Supported:** MS-DOS, OS/2, AmigaDOS, UNIX/XENIX, Windows  
**Leading Brands Sold:** AST, Novell, Amiga  
**Special Value Added:** We service what we sell, training, seminars

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Store Manager: Mike Zielinski  
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(707)576-0972

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**Leading Brands Sold:** Amiga, Atari ST, Hyundai  
**Special Value Added:** "We compete on service".

### WHOLE EARTH ACCESS

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San Rafael, CA 94903  
(415)459-3533

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**Operating Systems Supported:** MS-DOS, OS/2, AmigaDOS, Mac OS, UNIX/XENIX, Novell  
**Leading Brands Sold:** Apple, Compaq, IBM  
**Special Value Added:** Training classes, service support, manufacturer warranties, return policy, leasing (personal and business).

## SACRAMENTO

### ABSOLUTE COMPUTER TECHNOLOGIES

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Sacramento, CA 95827  
1(800)655-7378, (916)736-0420 serv  
**Other Locations:** 2330 Alhambra Blvd., Sacramento, CA 95817

**Areas of Specialty:** Repairs/Network Installation, Software, Maintenance Agreements  
**In-House Expert:** Kevin Perrin, Dan Root, Brian Adams  
**Operating Systems Supported:** MS-DOS  
**Leading Brands Sold:** Novell, AST, Q&A  
**Special Value Added:** Service, support. We support the largest manufacturers in Northern California.

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Rancho Cordova, CA 95742  
(916)635-0126

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**In-House Expert:** B. Brendle, Smith, Brendle  
**Operating Systems Supported:** MS-DOS, OS/2  
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Advertised Price On Systems We Carry
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Manufactured In The U.S.A.
- Corporate P.O.'s Welcome



| SYSTEMS:                 | 286/12                 | 386SX/16               | 386/20                          | 386/25C                         | 486/25C                |
|--------------------------|------------------------|------------------------|---------------------------------|---------------------------------|------------------------|
| PRICE                    | \$345                  | \$675                  | \$712                           | \$890                           | \$2145                 |
| Micro Processor:         | Intel 80286/12         | Intel 80386SX/16       | Intel 80386/20                  | Intel 80386/25C                 | Intel 80486/25C        |
| Memory:                  | 1 MB                   | 1 MB                   | 1 MB                            | 1 MB                            | 1 MB                   |
| Socket For Co-Processor: | 80287                  | 80387SX                | 80387 Weitek 3167               | 80387 or Weitek 3167            | Weitek 4167            |
| Controller:              | IDE                    | IDE                    | IDE                             | IDE                             | IDE                    |
| Floppy Drive:            | 1.2 MB                 | 1.2 MB                 | 1.2 MB                          | 1.2 MB                          | 1.2 MB                 |
| I/O:                     | 2 Serial<br>1 Parallel | 2 Serial<br>1 Parallel | 2 Serial<br>1 Parallel          | 2 Serial<br>1 Parallel          | 2 Serial<br>1 Parallel |
| Cache:                   | None                   | None                   | None                            | 64K                             | 256K                   |
| Expansion Slots:         | 6-16 Bit<br>2-8 Bit    | 6-16 Bit<br>2-8 Bit    | 5-16 Bit<br>1-8 Bit<br>1-32 Bit | 5-16 Bit<br>1-8 Bit<br>1-32 Bit | 6-16 Bit<br>2-8 Bit    |
| Keyboard:                | 101 Enhanced           | 101 Enhanced           | 101 Enhanced                    | 101 Enhanced                    | 101 Enhanced           |
| Landmark:                | 15.9                   | 21.7                   | 26.1                            | 40.5                            | 117                    |
| SI:                      | 15.3                   | 18                     | 23                              | 31.6                            | 45.9                   |
| CPU:                     | Intel 80286/16         | Intel 80386SX/20       | Intel 80386/25                  | Intel 80386/33C                 | Intel 80486/33C        |
| Upgrade:                 | Add *88                | Add *75                | Add *150                        | Add *236                        | Add *1425              |

## OPTIONS:

### HARD DRIVES

|              |         |
|--------------|---------|
| 40 MB 26 ms  | ..\$218 |
| 112 MB 17 ms | ..455   |
| 150 MB 23ms  | ..1095  |
| 332 MB 17 ms | ..1495  |

### FLOPPY DRIVES

|                |        |
|----------------|--------|
| 360 KB (5.25") | ..\$55 |
| 1.2 MB (5.25") | ..60   |
| 720 KB (3.5")  | ..57   |
| 1.44 MB (3.5") | ..61   |

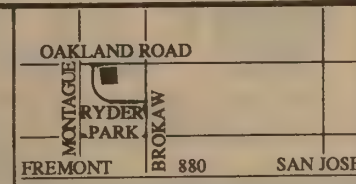
### VIDEO SUBSYSTEMS

|                  |        |
|------------------|--------|
| Monochrome       | ..\$90 |
| VGA              | ..365  |
| SUPER VGA (1 MB) | ..510  |



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## Multiple Solutions

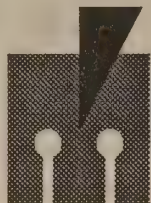
MULTIMICRO has the solution for your personal or business micro computer requirements no matter how big or small.

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## The Complete Home Personal Computer

**MMI-286-12 286-12MHz Computer**  
**286-12MHz CPU with 1MB RAM**  
**Small Footprint Case with 200 Watt Power Supply**  
**Teac 1.2 or 1.44MB Floppy Drive**  
**Maxtor 40MB IDE Drive with Adapter(28ms)**  
**Samsung 14" Monochrome Monitor**  
**MGA Monographics Adapter with Parallel Port**  
**Keytronic 101 Enhanced Keyboard**

**Rated FCC Class 'B' for home use**

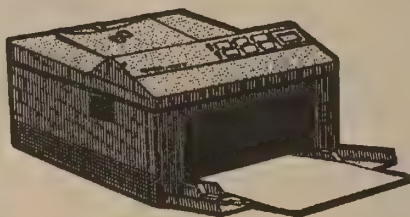


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**One Year Free ON-SITE SERVICE**

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**For The Macintosh.**

**Free 250-sheet paper tray with every HP LaserJet IIP (\$195 value) Ends 12/31/90**

Now at Wolf Computer there's a complete family of affordable, high-quality HP printers and scanners that can improve the look of your Macintosh output. Come in today and see what the HP LaserJet IIP printer can do for you.

- Affordable 300-dpi laser output
- AppleTalk®/LaserWriter® compatibility
- Compact, desktop size
- Wolf Computer's support and service

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(916)824-1477

**Areas of Specialty:** Application Software  
Training, Computer Repair and Upgrades

**In-House Expert:** Peter James

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** Powersource 16MB

AT, Software Publishing Co., Microsoft

**Special Value Added:** Service, training, support, warranties, return policy.

### THE COMPUTER STORE

Store Manager: Daniel Duane  
1870 Fulton Ave.  
Sacramento, CA 95825  
(916)972-7678

**Other Locations:** Mountain View, San Francisco, Walnut Creek

**Areas of Specialty:** Computer Repair, Novell Network

**In-House Expert:** Daniel Duane

**Operating Systems Supported:** MS-DOS, OS/2, UNIX/XENIX

**Leading Brands Sold:** Optima, AOC, Panasonic

**Special Value Added:** 1. Free phone support  
2. Fast turn-around service 3. One year warranty.

### THE LISA SHOP

Store Manager: Frank Freeman  
P.O. Box 969  
Woodland, CA 95695  
(916)668-5637

**Areas of Specialty:** Lisa/Macintosh, Macintosh

**In-House Expert:** Frank Freeman

**Operating Systems Supported:** Mac OS, UNIX/XENIX

**Leading Brands Sold:** The Lisa Shop, Macintosh

**Special Value Added:** Support, warranties, return policy.

### TONY DANIELI/PAULA CAPOBIANCO

Store Manager: Tony Danieli/Paula Capobianco  
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Citrus Heights, CA 95610  
(916)725-0228

**Other Locations:** Computer Shows

**Areas of Specialty:** Apple II

**In-House Expert:** Tony Danieli

**Operating Systems Supported:** Mac OS, Apple II

**Leading Brands Sold:** Apple II, Mac Hardware, Mac Software

**Special Value Added:** Our products are new and used. We also consign buy Apple II and Mac. We have hard to find items for discontinued Apple II and Mac computers (Apple II+, IIE, Mac 512 etc.) We also run and sell at the Free Ft. Mason Computer Show in San Francisco.

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Store Manager: Steve Anderson  
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Sacramento, CA 95831-1227  
(916)395-5534

**Areas of Specialty:** Desktop Publishing, Life Insurance Agencies, Small Legal Systems

**In-House Expert:** Steve Anderson

**Operating Systems Supported:** MS-DOS, CP/M, UNIX/XENIX, Concurrent 386

**Leading Brands Sold:** AT&T, Microtek,

Lasermaster

**Special Value Added:** Turnkey software and hardware implementation.

## VALLEJO

### DATAPRO

Store Manager: Richard Massie  
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**Areas of Specialty:** Computer cables, Data transfer boxes, Data communication equipment

**Leading Brands Sold:** Data Pro

**Special Value Added:** 24-hour turn time (standard), 48-hour turn time (specials), 5 year guarantee, competitive pricing

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**Special Value Added:** 1 year warranty, we design and assemble what we sell for top quality control.

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(415)685-8080

**Areas of Specialty:** Networking, Hardware, Accessories

**Operating Systems Supported:** MS-DOS, OS/2, CP/M, UNIX/XENIX, Novell, Gold

**Leading Brands Sold:** DTK, Panasonic, Novell

**Special Value Added:** Complete training center with 14 station network. On-site service. Leasing, return and upgrade policy.

## MONTEREY

### ENERGETICS

Store Manager: Bill Bowdew  
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(805)543-7952

**Areas of Specialty:** Automated Accounting, Point of Sale, Networking

**In-House Expert:** Bill Bowdew

**Operating Systems Supported:** MS-DOS

**Leading Brands Sold:** AST, Unisys, Hewlett-Packard

**Special Value Added:** I will key systems, training, support, all hardware warrantied

### VISIONCOFT

Store Manager: Jeff Crichton  
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*Continued on page 254*



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## G286-12Mhz SYSTEM

**\$369**

- 1 MB RAM ON BOARD
- 1:1 2HD/2FD CONTROLLER
- 1.2M OR 1.44M FLOPPY DRIVE
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- INTERNAL CLOCK/CALENDAR
- 101-KEY ENHANCED KEYBOARD
- MINI AT CASE w/200W POWER SUPPLY

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**\$579**

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- 1.2M OR 1.44M FLOPPY DRIVE
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
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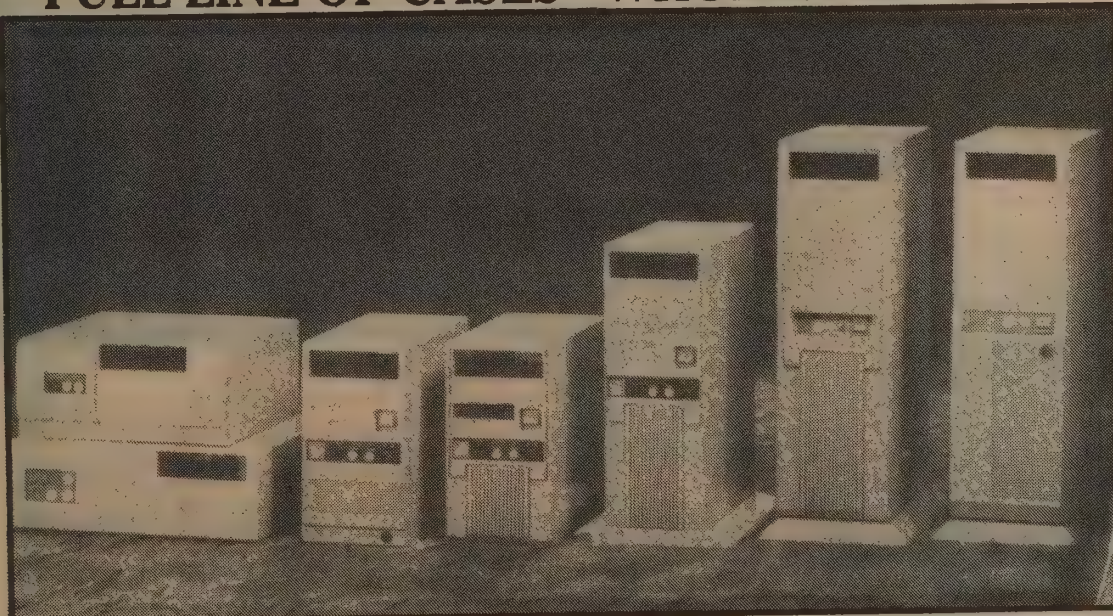
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- 1:1 2HD/2FD CONTROLLER
- 1.2MB OR 1.44 MB FLOPPY DRIVE
- 2 SERIAL, 1 PARALLEL PORT 1 GAME PORT
- INTERNAL CLOCK/CALENDAR
- 101-KEY ENHANCED KEYBOARD
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## G386-33Mhz 64K CACHE

**\$1179**

- 1 MB RAM ON BOARD
- 1.2M OR 1.44M FLOPPY DRIVE
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- INTERNAL CLOCK/CALENDAR
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**\$2549**

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- 1.2M OR 1.44M FLOPPY DRIVE
- 2 SERIAL, 1 PARALLEL, 1 GAME PORT
- INTERNAL CLOCK/CALENDAR
- 1:1 2HD/2FD CONTROLLER
- 101-KEY ENHANCED KEYBOARD
- TOWER CASE w/230W POWER SUPPLY

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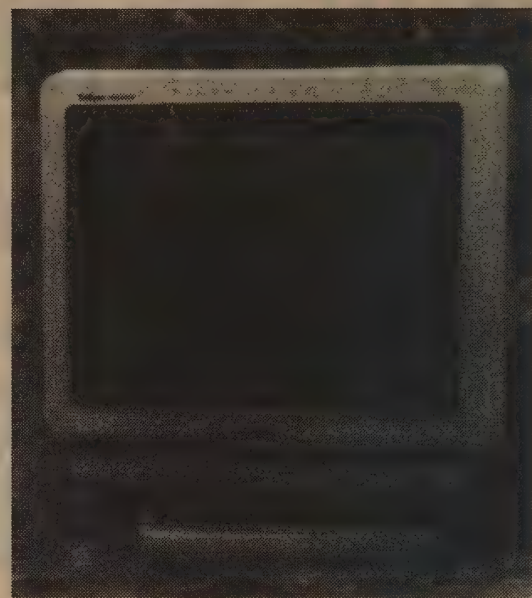


## PACKARD BELL'S EXTENDED VGA MONITOR

The PB8510SV is a new Extended VGA high-resolution monitor for graphics applications from Packard Bell. This 14" monitor, marking Packard Bell's entry into the growing Extended VGA market, features a resolution of 1024 x 768 and a dot pitch of 0.28mm for clarity. This package includes a 15-pin cable and front-mounted controls for brightness, contrast, vertical and horizontal size and centering. It is driven by Packard Bell's Extended VGA 16-bit video adapter. This monitor is also compatible with MCGA, VGA, SuperVGA, and Mac II color graphics boards.

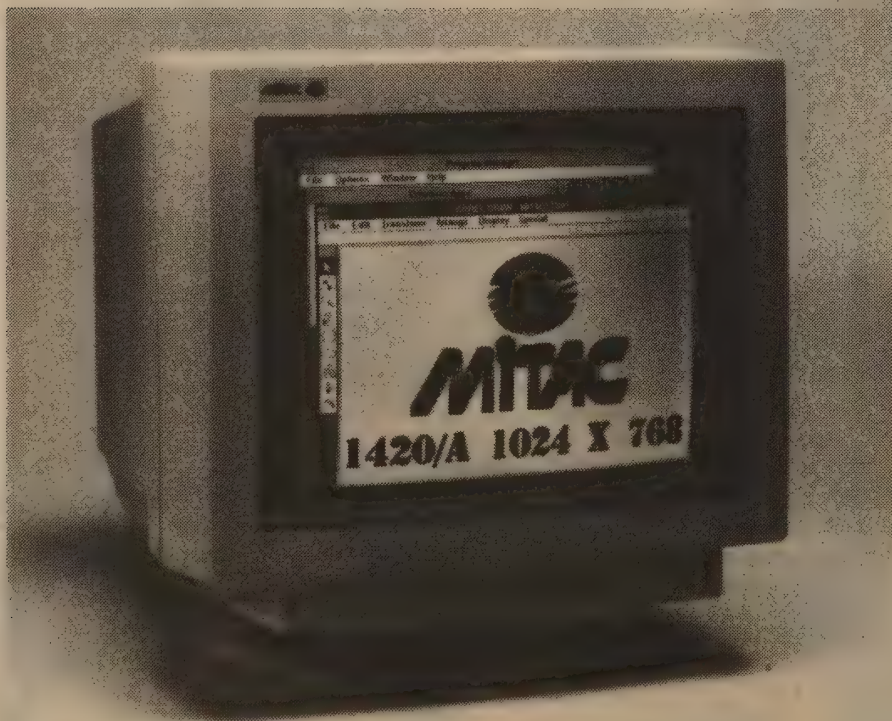
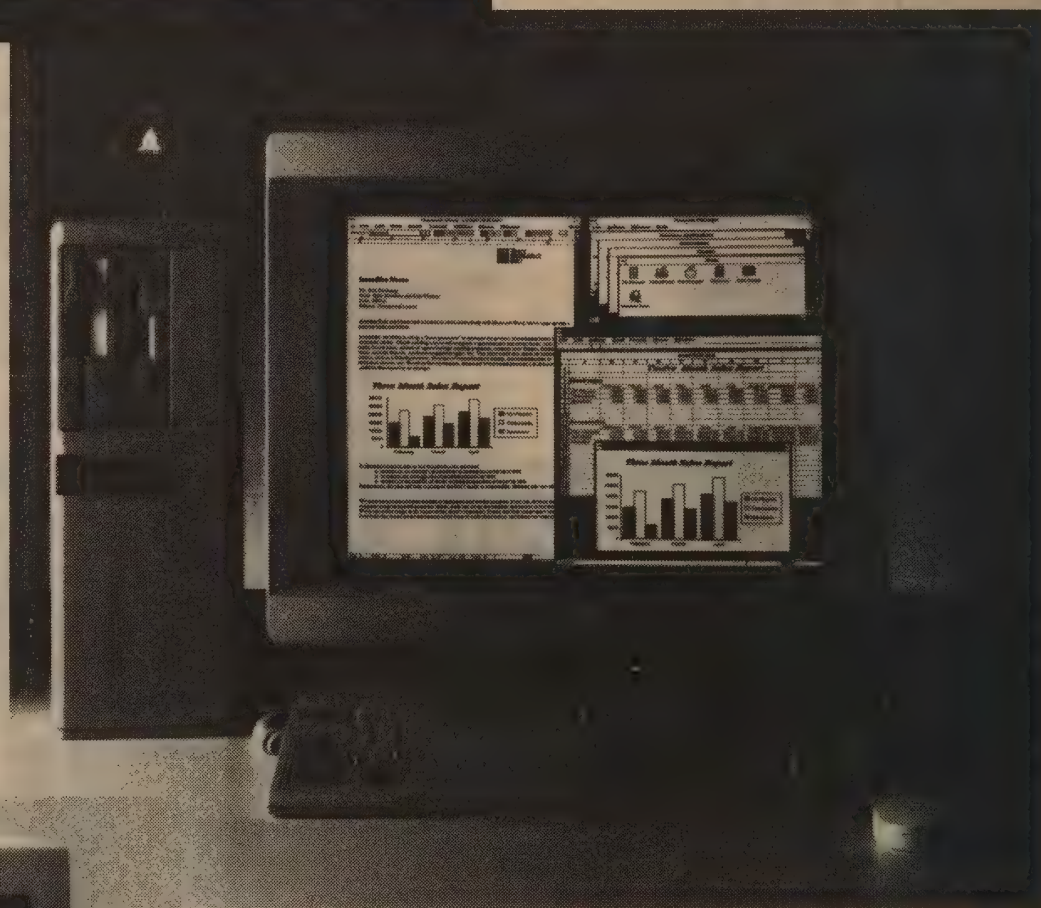
One-year limited warranty and free technical support is provided by Packard Bell. (\$899) Packard Bell, Inc., 9425 Canoga Ave., Chatsworth, CA 91311. (818)773-4400, Fax (818)773-9521.

# M MONITORS



## LARGE, CLEAN WINDOWS WITH RADIUS

The Radius Two Page Display system offers an ideal solution for a Windows environment. Designed for desktop publishing professionals, word processing specialists, and extended spreadsheet users, the 19" and 21" display systems have a resolution of 1280 x 980. The advantages of a two page screen include the ability to view an entire document without scrolling or reducing. For applications such as word processing, spreadsheets and general business applications, whose output will be black and white, the high resolution and excellent image quality also offer an advantage to color displays. Radius, Inc., 1710 Fortune Dr., San Jose, CA 95131. (415)434-4010.



## SUPER PRICES FOR SUPERVGA

MiTAC, Taiwan's second largest computer manufacturer, is offering its first SuperVGA color monitor in the US. The M1420 is a 14" color monitor that supports VGA, SuperVGA, 8514/A. This new monitor offers resolution of 1024 x 768 and 0.28mm dot pitch to ensure sharpness of both graphics and text. The M1420 features control knobs on the front for easy access, a tilt and swivel base and an anti-glare screen. While this is a high-end color monitor, it carries a low list price of \$695. America MiTAC Corp., 410 E. Plumeria Dr., San Jose, CA 95134. (408)432-1160.



## AISA 486-33 MHz

128K UP TO 256K CACHE

1MB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

**\$2700**

free mouse

## EISA 486-33 MHz

64K UP TO 256K CACHE

1MB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

**\$3500**

free mouse

## 486-25 MHz

64K UP TO 256K CACHE

1MB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

**\$2100**

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## 386-33 MHz

64K Cache

1MB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

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- 32K CACHE ON BOARD
- 3 FLOPPY DRIVE SUPPORT
- CO-EXIST W/ F/HD CONTROLLER
- SUPPORT NOVELL DUPLEXING/MIRRORING
- PROGRAMMABLE SECTOR/CYLINDER SKEW
- XENIX, UNIX, NOVELL/OS2 COMPATIBLE
- COMPREHENSIVE DEFECT MANAGEMENT

## 386-25C MHz

64K Cache

1MB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

**\$955**

free mouse

W/O CACHE **\$845**

## 386SX-20 MHz

1MB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

**\$799**

free mouse

SX16 **\$690**

## 286-12 MHz

512KB RAM  
1.2M FLOPPY DRIVE  
1:1 DUAL FD/HD CTR  
2 SERIAL/1 PARALLEL  
AT CASE W/POWER SUPPLY  
QCP 101-KEY KEYBOARD

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MODEM  
EXTERNAL 96/24  
SEND/RECEIVE **\$299**

Zoltrix  
FAX/MODEM

FAX/DATA INTERNAL  
96/24  
SEND/RECEIVE **\$169**

### HARD DRIVES

|                          |       |
|--------------------------|-------|
| 44 MB WD95044            | \$240 |
| 66 MB NEC RLL            | \$295 |
| 85 MB WD28052 17MS       | \$450 |
| MAGTRON 110 MB ESDI 16MS | \$530 |
| MAGTRON 140 MB ESDI 16MS | \$650 |
| MAGTRON 170 MB ESDI 16MS | \$699 |

### MONITORS

|                      |       |
|----------------------|-------|
| 12" MONO             | \$68  |
| 14" MONO             | \$94  |
| VGA                  | \$310 |
| SUPER VGA 1024 X 768 | \$360 |
| MULI SUPER VGA 3D    | \$450 |

### PRINTERS

|                   |       |
|-------------------|-------|
| PANASONIC KX-1180 | \$160 |
| PANASONIC KX-1124 | \$280 |
| PANASONIC KX-1524 | \$370 |
| PANASONIC KX-4420 | \$800 |

### VIDEO CARDS

|                          |       |
|--------------------------|-------|
| MONO GRAPHICS W/P        | \$25  |
| VGA (800 X 600)          | \$70  |
| VGA (1024 X 768)         | \$90  |
| VGA (1024 X 768, 1MB)    | \$160 |
| ORCHID DESIGNER II W/1MB | \$289 |



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MONITOR

NEW MODEL!

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- 14" COLOR/1024X768/0.28
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WITH TRIDENT 1MB VGA CARD

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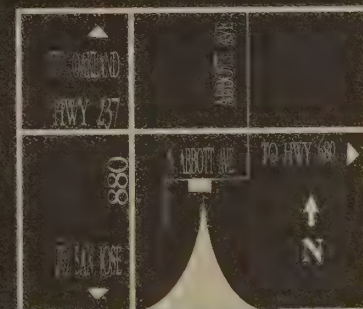
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# PRO STAR

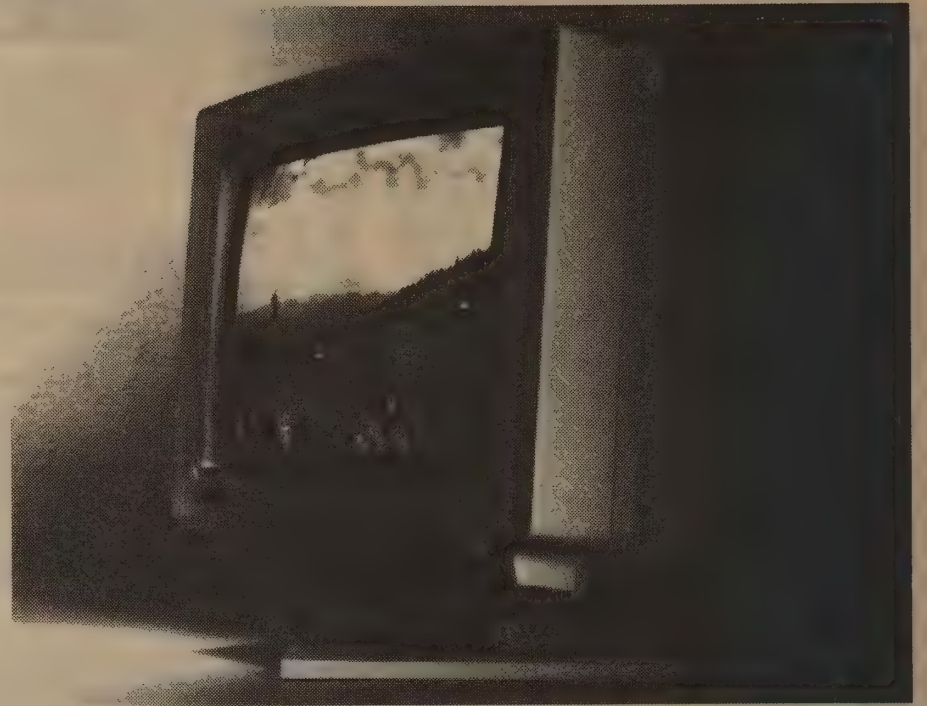
MICROSYSTEMS





## GOLDSTAR REDESIGNS COLOR MONITORS

The Goldstar 1450 Plus is a 14" analog monitor with SuperVGA, VGA and Macintosh II compatibility. This monitor features a new look that includes sliding brightness and contrast controls, ergonomic design and a soft gray color that blends into any office decor. The 1450 Plus RGB monitor offers 800 x 600, 640 x 480, 720 x 350 or 640 x 350 resolution and up to 256 colors on a non-glare body face. The complete line of Goldstar Plus monitors includes four 14" analog monitors: two RGB and two 256 color monitors. (Goldstar Plus monitor family from \$299 to \$1199) Goldstar Technology, Inc., 3003 N. 1st St., San Jose, CA 95134. (408)432-1331, Fax (408)432-6053.



# MONITORS

## NANAO LOW EMISSIONS, HIGH RESOLUTION MONITOR

The Nanao FlexScan 9060S is a high resolution, multi-scanning, color monitor compatible with IBM PS/2, PC, XT, AT and compatible computers, and the Apple Macintosh II. The size and flexible display range make it ideal as user needs change and graphics standards advance across applications, including word processing, spreadsheets, CAD/CAM and desktop publishing. A newly developed Saddle/Saddle deflection yoke with a built-in special coil reduces low-frequency magnetic radiation to the level recommended by the Swedish National Institute of Radiation Protection. It also features a Dynamic Focusing Circuit and a Side-Pin Fine-Adjust control, enabling users to eliminate any side-to-side image distortion and make precise adjustments to suit the choice of display mode. (\$995) Nanao USA Corp., 23510 Telo Ave., Suite 5, Torrance, CA 90505. (213)325-5202.



## A REALLY BIG VIEW

TeleSensory, Inc., has forged an important link between video magnifiers for low vision people and personal computers. Its new Lynx monitor can display any image from a video camera, VCR or Closed Circuit Television (CCTV) on a VGA computer screen. Lynx circuit boards can be installed on all TeleSensory Vista VGA screen enlargers for IBM PC, XT, and AT compatibles or Vista/2 for IBM PS/2 microchannel models. When Lynx and Vista are used with TeleSensory CCTV camera, visually impaired users can enlarge both computer images and print material to a comfortable viewing magnification. All Lynx commands are given through a three button mouse that is supplied with the Vista system. TeleSensory, Inc., 455 N. Bernardo Ave., PO Box 7455, Mountain View, CA 94039. (415)960-0920.





# Alltek Computer

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### AT 386

25 MHz/33MHz  
80 Meg HD  
VGA Monitor

**\$1925/\$2150**

### AT 386SX

16 MHz  
40 Meg HD  
Mono Monitor

**\$1035**

### AT 286\*

12 MHz  
40 Meg HD  
VGA Monitor

**\$999**

#### EACH SYSTEM INCLUDES

1 Megabyte RAM  
AT Case w/Power Supply  
KEYTRONICS 101 Keyboard  
1:1 Hard Floppy Controller

TEAC 1.2 and 1.4 Floppy Drive  
Monitor (14" S VGA/12" Mono)  
Video Controller  
2 Serial/1 Parallel Card

\* 1 Floppy on 286 Systems

#### HARD DRIVES

NEC 3142 44/66MB 24MS ..... **\$295**  
WD 44MB 28MS (IDE) ..... **\$275**  
Quantum 80MB 19MS (IDE) ..... **\$480**  
Conners 100MB 24MS (IDE) ..... **\$525**

#### VIDEO CARDS

Paradise OEM 512K ..... **\$120**  
Genoa 6400 512K ..... **\$150**  
Tseng Lab OEM 512K ..... **\$120**  
Orchid Pro Designer II 512K ..... **\$270**

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386/33 MHZ 64K Cache ..... **\$895**  
386/25 MHZ 64K Cache ..... **\$785**  
386SX/16 MHZ ..... **\$360**  
286/12 MHZ ..... **\$120**

Other items available.  
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14" S VGA 1024x768 .28DP ..... **\$365**  
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SAMSUNG  
12" Amber Mono Monitor ..... **\$79**  
14" VGA Monitor ..... **\$317**

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1.2 TEAC Floppy ..... **\$69**  
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360K TEAC Floppy ..... **\$63**  
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w/330 MB HARD DISK

- 64K Cache  
Upgradeable to 256K
- 4 MB RAM
- 1.2 MB Teac Floppy Drive
- 330 MB ESDI or SCSI Hard Disk
- Keytronics Keyboard
- ESDI or SCSI Controller
- High Quality Tower Case
- 230 Watt UL Power Supply

**\$3695**

## SYSPER 486-25 MHz

w/100 MB HARD DISK

- 4 MB RAM
- 1.2 MB Teac Floppy Drive
- 100 MB Conner Hard Disk
- Keytronics Keyboard
- 2 FD/2 HD IDE Controller
- High Quality Tower Case
- 230 Watt UL Power Supply

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## SYSTEMS OPTIONS:

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SUPER VGA MONITOR 1024 x 768 .28 dot pitch  
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### MOTHERBOARDS

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|-----------------------------|--------|
| 286-12                      | \$105  |
| 386-SX 16                   | 250    |
| 386/25 w/CPU                | 550    |
| 386/25 64K Cache            | 675    |
| 386/33 64K Cache            | 775    |
| <b>MICRONICS</b>            |        |
| 386/25                      | \$775  |
| 386/25 32K Cache            | 975    |
| 386/33 32K Cache            | 1150   |
| 486/25 64K Cache            | 1950   |
| <b>ORCHID</b>               |        |
| 386-SX/16 w/1 MB RAM        | \$495  |
| 386/33 32K Cache w/4 MB RAM | 1475   |
| 486/25                      | 1975   |
| <b>OMNITEL</b>              |        |
| 386/33 64K Cache            | \$1150 |

### MONITORS

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|------------------|-------|
| 14" VGA          | \$310 |
| 14" Super VGA    | 345   |
| 14" Seiko 1440   | 545   |
| 14" Seiko 1450   | 675   |
| 14" Sony 1304    | 675   |
| 14" NEC 2A       | 455   |
| 14" NEC 3D       | 625   |
| 16" Nanao 9070 U | 1075  |

### CASE

|            |      |
|------------|------|
| Baby AT    | \$92 |
| Mini Tower | 105  |
| Med Tower  | 130  |
| Tower Case | 175  |

### ADD-ON CARDS

|                            |      |
|----------------------------|------|
| 2 FD/2 HD IDE Controller   | \$25 |
| 2 FD/2 HD MFM Controller   | 60   |
| W.D. 1:1 MFM               | 95   |
| W.D. 1:1 RLL               | 99   |
| W.D. ESDI                  | 165  |
| W.D. SCSI                  | 295  |
| DTC 1:1 MFM                | 80   |
| DTC 1:1 RLL                | 95   |
| DTC ESDI                   | 126  |
| DTC SCSI                   | 145  |
| Adaptec SCSI               | 285  |
| Serial Card                | 15   |
| 2 Serial/1 Parallel/1 Game | 25   |
| Game Card                  | 15   |



**SYSPER TECHNOLOGIES INC.**

1590 OLD OAKLAND RD.  
SUITE B-113

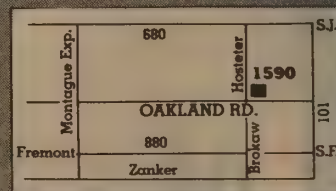
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### SYSPER 386/33 C

w/64K CACHE  
w/40 MB HARD DISK

- 1 MB RAM
- 40 MB Hard Disk
- 1.2 MB Floppy Drive
- 1:1 2 FD/2 HD Controller
- Serial, Parallel Ports
- Real Time Clock/CMOS Memory w/Battery Back-Up
- 101 Key Keyboard
- 200W Power Supply
- Deluxe Case

LANDMARK 53 MHz

**\$1295**

### SYSPER 386/25 C

w/64K CACHE  
w/40 MB HARD DISK

- 1 MB RAM
- 40 MB Hard Disk
- 1.2 MB Floppy Drive
- 1:1 2 FD/2 HD Controller
- Serial, Parallel Ports
- Real Time Clock/CMOS Memory w/Battery Back-Up
- 101 Key Keyboard
- 200W Power Supply
- Deluxe Case

LANDMARK 43 MHz

**\$1195**

### SYSPER 386/25

w/40 MB HARD DISK

- 1 MB RAM
- 40 MB Hard Disk
- 1.2 MB Floppy Drive
- 1:1 2 FD/2 HD Controller
- Serial, Parallel Ports
- Real Time Clock/CMOS Memory w/Battery Back-Up
- 101 Key Keyboard
- 200W Power Supply
- Deluxe Case

LANDMARK 33 MHz

**\$1095**

### SYSPER 386 SX/16



- 1 MB RAM
- 1.2 MB Floppy Drive
- 2 FD/2 HD Controller (IDE)
- Serial, Parallel Ports
- Real Time Clock/CMOS Memory w/Battery Back-Up
- 101 Key Keyboard
- 200W Power Supply
- Deluxe Case

LANDMARK 21 MHz

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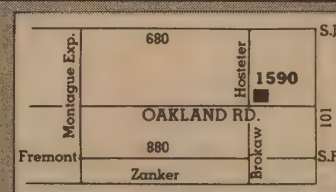
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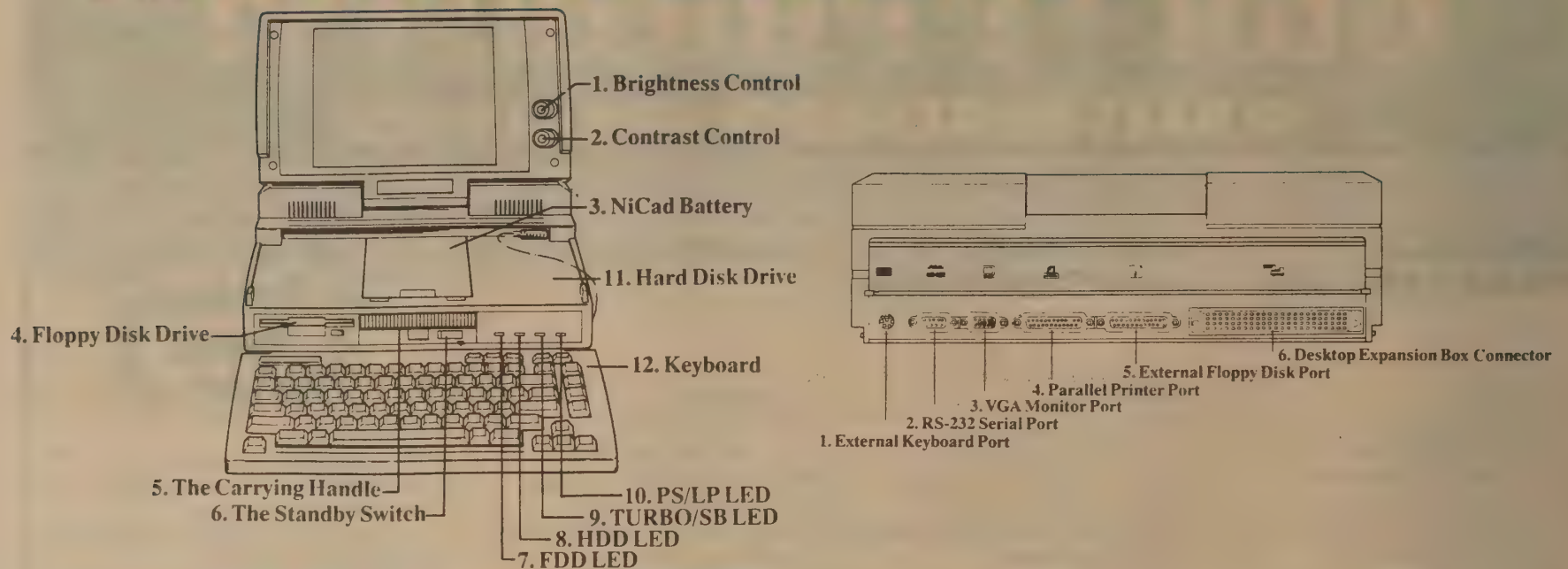


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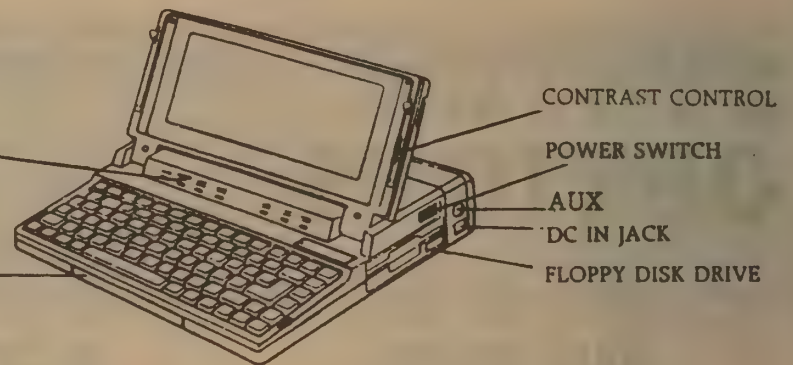


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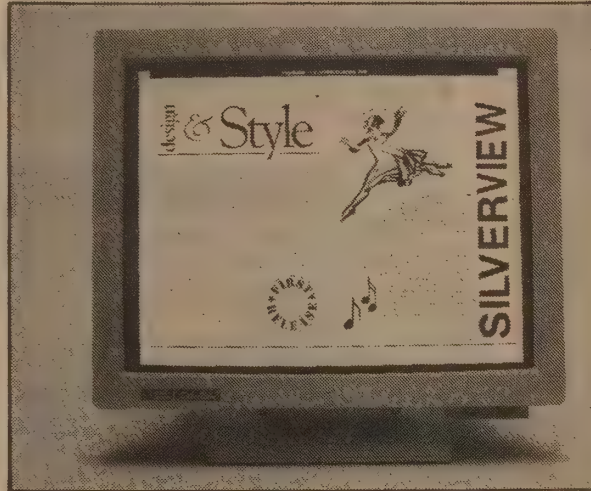


# NEW PRODUCT BUYERS GUIDE

## MONITORS

### SIGMA DESIGNS LOW VLF MONITORS

Sigma Designs has begun selling monitors in the US for Macintosh and IBM compatible computers that meet VLF (Very Low Frequency) emission standards set by the Swedish government. The low-VLF versions of the 15" Page View, 19" L-View and 21" Silver View monitors each have suggested retail prices \$200 above standard systems currently sold. The 21" Silver View series includes a monochrome and 256 gray shades monitor for both the Macintosh and PC AT computers with resolution of 1152 x 870. (Prices range from the Page View VLF for Macintosh, \$1299, through the Silver View VLF for PC AT, \$3695) Sigma Designs, Inc., 46501 Landing Pkwy., Fremont, CA 94538. (415)770-1000.



### AAMAZING TECHNOLOGIES MULTISYNC MONITOR

Aamazing Technologies has introduced a 1024 x 768 resolution, 14", analog multisync color monitor, the CM-61428. This monitor offers 256 simultaneous colors and full compatibility with VGA, SuperVGA and 8415/A standards. Its horizontal scan frequency is 31.5kHz to 38kHz, and vertical scan frequency at 45kHz to 90Hz. The 0.28mm dot pitch displays sharp images while the non-glare, etched, dark tinted screen makes eye fatigue almost nonexistent. The addition of the CM-61428 completes the line of monitors from Aamazing Technologies that range from 9" to 21" models. According to Julius Chiang, president of Aamazing Technologies, "We see our products as alternatives to NEC's line." (\$639) Aamazing Technologies Corp., 5980 Lakeshore Dr., Cypress, CA 90630. (714)826-9681.



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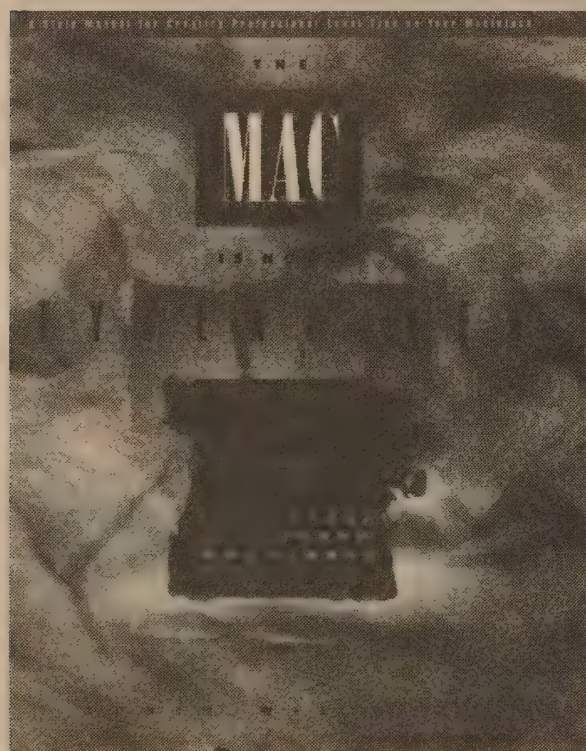
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## MORE COLORFUL DESKTOP PUBLISHING

*The Power of Color in Design*, by Vern Groff, is an illustrated guide to desktop publishing and designing in color. Written for users of all types of hardware and software, Groff helps desktop publishers make improvements in the appearance and quality of their work. Loaded with full-color examples, the book explains how to use color for emotional impact, how to handle typefaces and letterforms with the finesse of a professional, and how to give designs continuity by using a design grid system. *The Power of Color* discusses how to link desktop publishing technology with traditional color printing methods. (\$24.95) MIS:Press, Inc., 524 N. Tillamook, Portland, OR 97227. (503)282-5215.

# Books

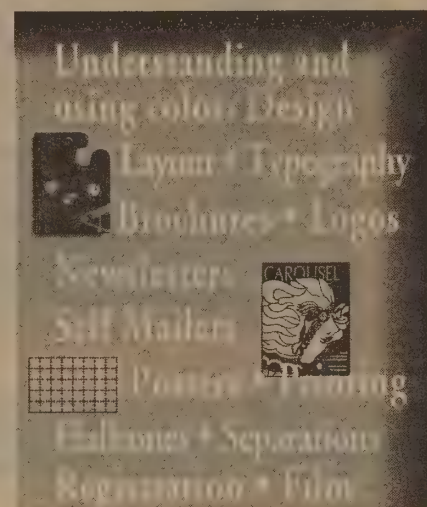


## WRITING ON A MAC WITH STYLE

*The Mac Is Not a Typewriter, A Style Manual for Creating Professional-Level Type on Your Macintosh* is short and to the point.

This 72-page book provides twenty lessons that together make up a quick course in typography for everyone, not just Macintosh users. The chapters discuss such topics as dashes, special characters, accent marks, kerning, windows & orphans, and serifs and sans serif fonts. The final chapter offers a quiz and the appendix presents a checklist of rules. (\$9.95) *The Mac Is Not a Typewriter*, Robin Williams, Peachpit Press, 1085 Keith Ave., Berkeley CA, 94708. 1-800-283-8555.

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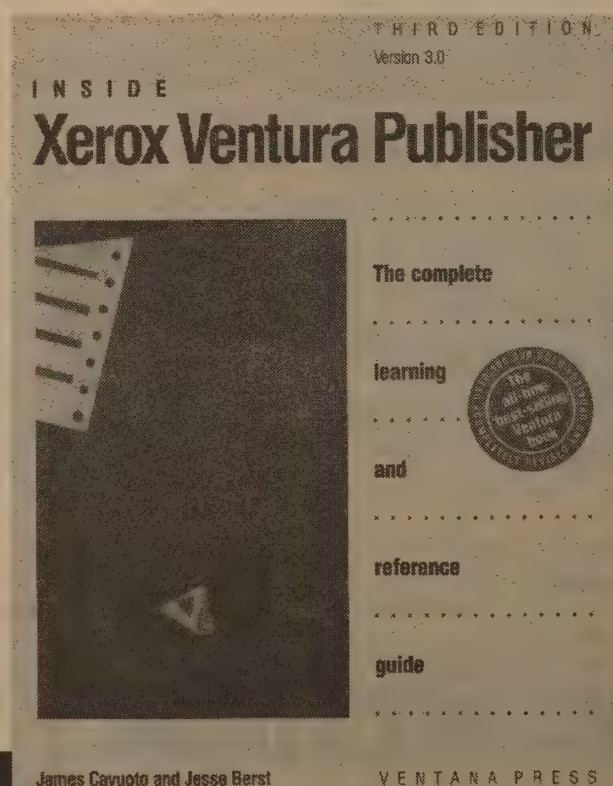
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## INSIDE XEROX VENTURA PUBLISHER

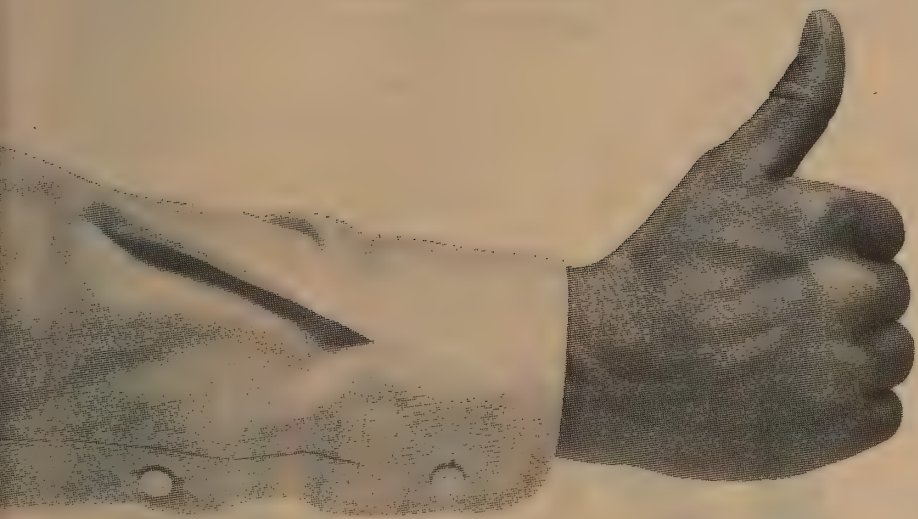
Ventana Press has published a third edition of its best-selling Ventura book *Inside Xerox Ventura Publisher: The Complete Learning and*

*Reference Guide*. This book provides a guided tour through the many features and functions that make Ventura one of the most popular desktop publishing programs. In addition to this step by step tour the authors also discuss the benefits and shortcomings of desktop publishing and compare Ventura Publisher to other PC desktop publisher programs. (\$24.95) *Inside Xerox Ventura Publisher*, James Cavuoto and Jesse Berst, Ventana Press, Inc., PO Box 2468, Chapel Hill, NC 27515. (916)942-0220.





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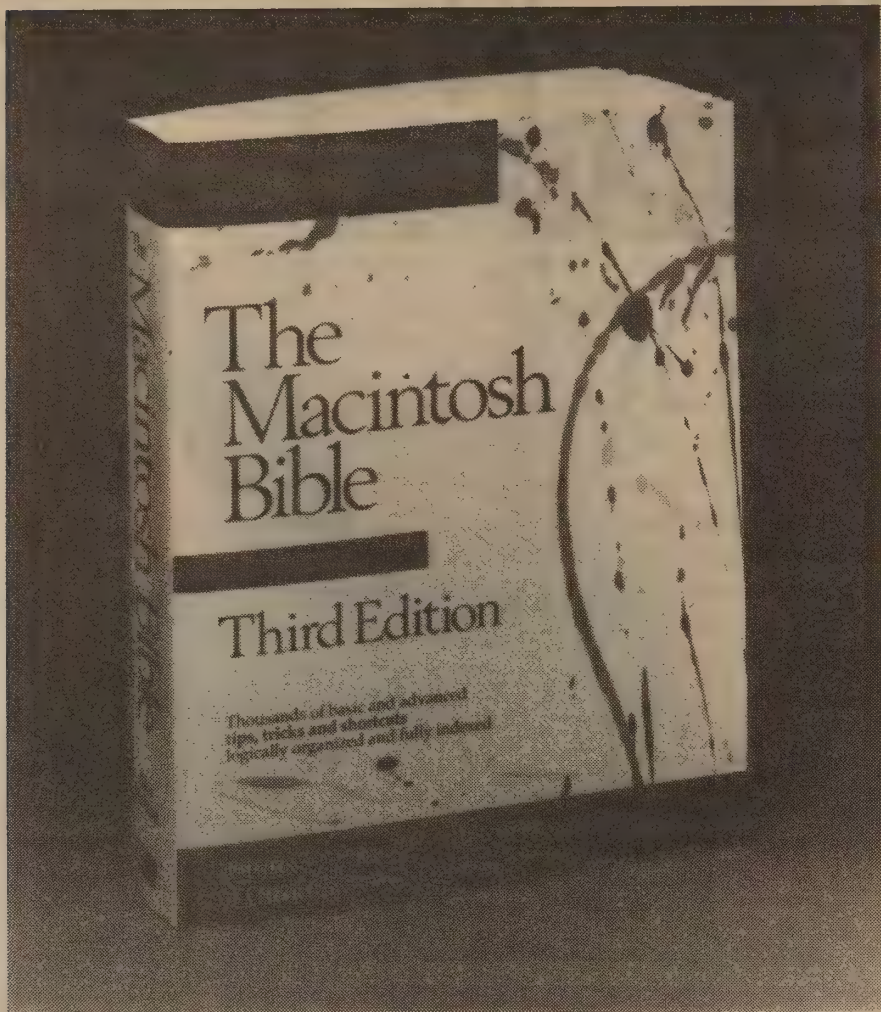
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\* List price of \$499 is for monochrome model. ColorIT model is \$549. ©1990, Fujitsu America, Inc. All rights reserved. ColorIT is a trademark of Fujitsu America, Inc. NMT-1





## 3RD EDITION MAC BIBLE

The newly released *Third Edition of the Macintosh Bible* gives new meaning to the phrase bigger-and-better. The Macintosh Bible contains thousands of tips, shortcuts and product evaluations to help everyone from the beginner to the most advanced user. In addition to updated information on Macintosh computers and peripherals, there are new chapters on Programming, Education & Entertainment, Troubleshooting and Databases. (\$28) *The Macintosh Bible*, Sharon Azrdetto Aker, et al., Edited by Arthur Neiman, Goldstein & Blair Publishers, PO Box 7635, Berkeley, CA 94704. (415)524-4000.

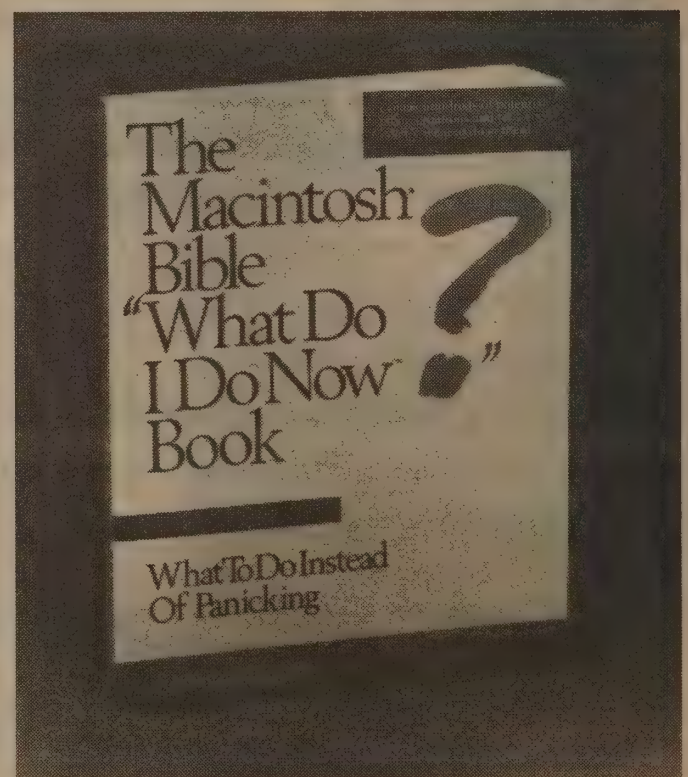
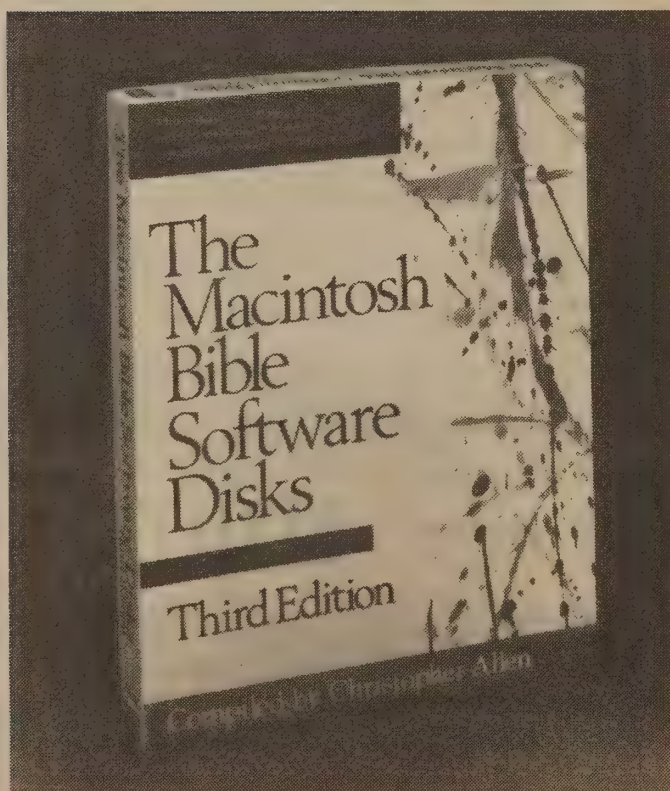
# Books

## EXTRAS FOR THE MAC BIBLE

To accompany the release of the *Third Edition of The Macintosh Bible*, publishers Goldstein & Blair have released two companion products. *The Macintosh Bible "What Do I Do Now Book?"* subtitled *What to Do Instead of Panicking*, covers every error message in the Mac's system software (through version 6.0.5).

There is also a clear, simple and straightforward discussion of basic Macintosh hardware and software basics, ways to repair the system software and problems that can occur when setting up a hard disk, installing system software, and when starting your Mac. (\$12)

*The Macintosh Bible Software Disks* are a collection of 1.5Mb of public-domain software and shareware. The first disk, labeled Left Brain, contains practical, detail-oriented utilities. The second, labeled Right Brain, contains creative, visually-oriented and fun software that make the Mac a joy to use. (\$20) Goldstein & Blair Publishers, PO Box 7635, Berkeley, CA 94704.





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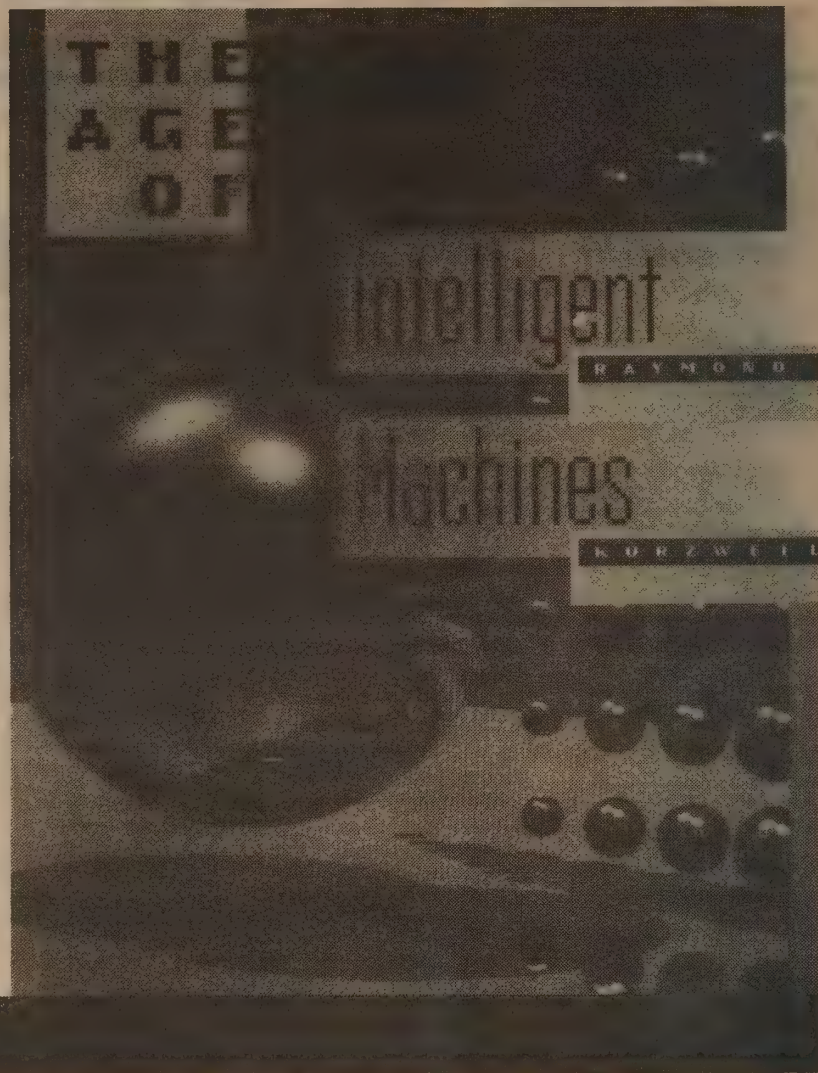
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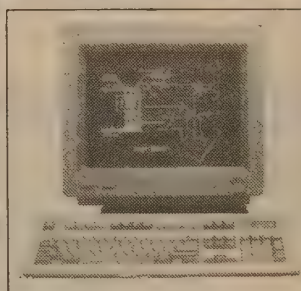
Lavishly illustrated and easily accessible to the nonspecialist, *The Age of Intelligent Machines*, by Raymond Kurzweil, provides the background needed for a full understanding of the scientific potential represented by intelligent machines and their equally profound philosophic, economic, and social implications. It examines the history of efforts to understand human intelligence and to emulate it by building devices that seem to act with human capabilities.

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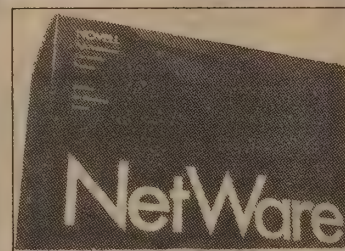
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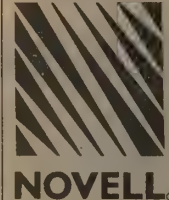
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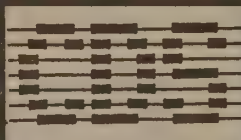
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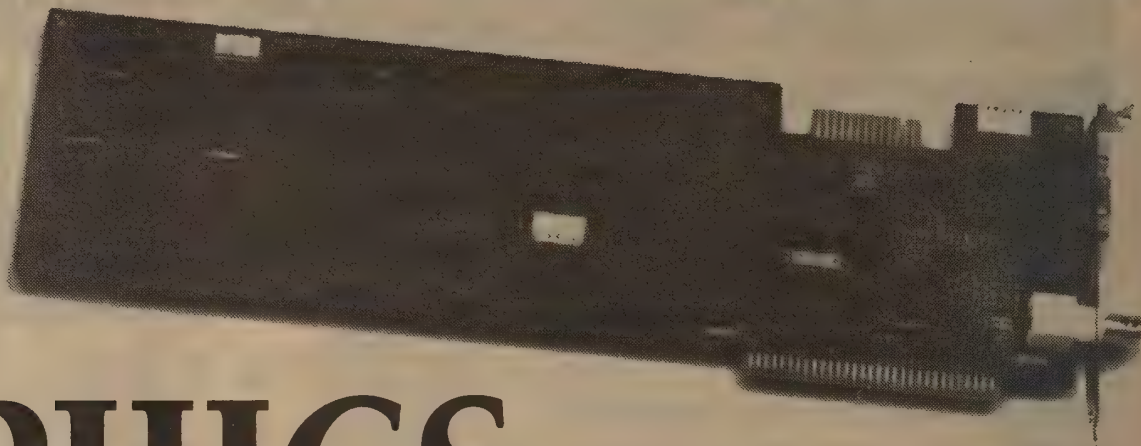
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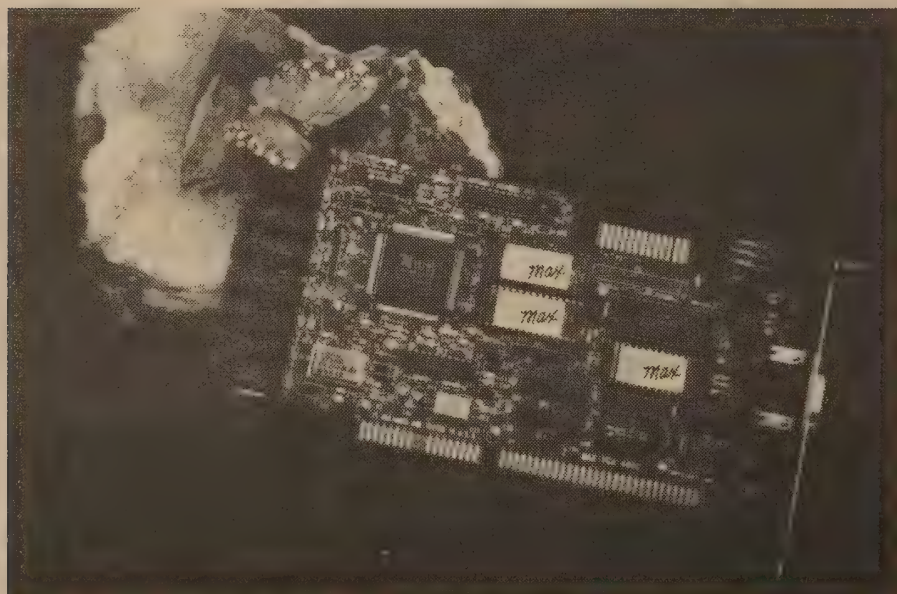


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United NetWorks, Inc. (UNI), a new San Jose-based company, has introduced a strong line-up of GrandSlam 3270 adapters that includes its GrandSlam 3270 VGA adapters. This product combines SuperVGA graphics and communications on a one-slot 8-bit adapter. The GrandSlam 3270 VGA supports resolutions of 1024 x 768 in four colors and resolutions of 800 x 600 x 480 in up to sixteen colors, with 256K of memory and communications combined on a single card. (\$795) United NetWorks, Inc., 2178 Paragon Dr., San Jose, CA 95131. (408)436-2800.

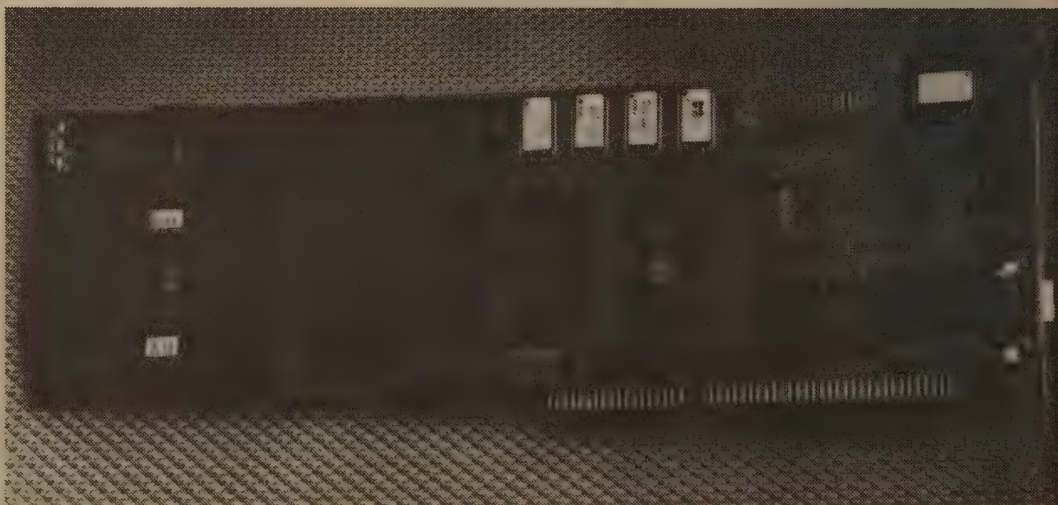


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Focus Information's 2-the-Max VGA 4000 is a high-resolution SuperVGA card for IBM compatible computers. Using the latest Tseng Labs ET4000 graphic chip-set, 2-the-Max offers a flexible memory configuration expandable to 1Mb and 1024 x 768 resolution with up to 256 displayable colors in all standard and extended graphic modes. Focus Information provides a one-year guarantee and a seven-day turn-around service program. (Priced between \$295 and \$395, depending upon memory configuration) Focus Information Systems, Inc., 42840 Christy St., Suite 102, Fremont, CA 94538. (415)327-3434.

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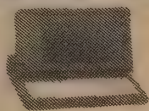
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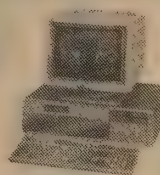
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#### 486-25 MHz System

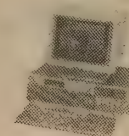
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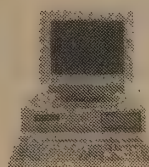
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#### 386-25 MHz System

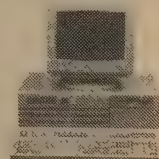
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- EMS-LIM 4.0 on Board
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- 101 Keyboard
- Case w/Power Supply



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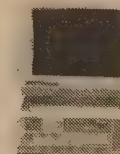
- Intel 386-SX CPU
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- C & T NEAT Chip Set
- AMI BIOS
- EMS-LIM 4.0 on Board
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- Choice: Regular Baby Case or Small Vertical Case



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| ST 4096 (80M) . . . . .    | <b>545</b>  |
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| NEC 40/66 MB . . . . .     | <b>295</b>  |
| Micropolis (71M) . . . . . | <b>545</b>  |
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| Panasonic KX-1624 . . . . .       | <b>375</b>     |
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| Fujitsu 360K/1.2K . . . . .  | <b>60/69</b> |
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| VGA-16 Bit Paradise OEM . . . . .                  | <b>105</b> |
| Video 7 (800x600) . . . . .                        | <b>90</b>  |
| Orchid Pro Designer II 512K . . . . .              | <b>215</b> |
| Everex EGA with PP . . . . .                       | <b>79</b>  |
| FD/HD 1:1 Controller . . . . .                     | <b>70</b>  |
| AT I/O (2S;1P;1G) . . . . .                        | <b>28</b>  |
| XT Multi I/O . . . . .                             | <b>39</b>  |
| Floppy Controller (360, 720, 1.2, 1.44K) . . . . . | <b>35</b>  |
| Floppy Controller (360K) . . . . .                 | <b>16</b>  |
| XT-H/D Controller WD-Gen. . . . .                  | <b>50</b>  |
| DTC 7280 MFM FD/HD (1:1) . . . . .                 | <b>85</b>  |
| DTC 7287 RLL FD/HD (1:1) . . . . .                 | <b>95</b>  |
| ST-02 SCSI Adapter . . . . .                       | <b>65</b>  |
| Printer/Serial/Game . . . . .                      | <b>18</b>  |
| Everex RAM 3000 Deluxe . . . . .                   | <b>98</b>  |
| Everex RAM 10000 . . . . .                         | <b>158</b> |

#### Keyboards

|                                          |           |
|------------------------------------------|-----------|
| 102 Key with Cherry Key Switch . . . . . | <b>53</b> |
| Keytronic 101 Key . . . . .              | <b>45</b> |
| Mitsumi 101 Key . . . . .                | <b>39</b> |
| Enhanced 101 Key . . . . .               | <b>36</b> |

#### Modems/Fax Cards

|                                       |                  |
|---------------------------------------|------------------|
| Everex 1200 Baud (int) . . . . .      | <b>54</b>        |
| Everex 2400 Baud (int) . . . . .      | <b>115</b>       |
| Everex 2400 Baud MNP5 (ext) . . . . . | <b>195</b>       |
| Everex 2400 Baud MNP5 (int) . . . . . | <b>150</b>       |
| Everex 2400B (ext) . . . . .          | <b>165</b>       |
| Everex Fax Modem . . . . .            | <b>275</b>       |
| CEI Pocket Modem . . . . .            | <b>Call Now!</b> |
| Ext 2400 Baud Modem . . . . .         | <b>100</b>       |
| Int. 2400 Baud Modem . . . . .        | <b>65</b>        |

#### Motherboards

486, 386-Variou Make/Speed  
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XT-10 MHz

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#### Monitors

|                                     |                |
|-------------------------------------|----------------|
| MONO (Hyundai 12") . . . . .        | <b>69</b>      |
| MONO (Samsung 14" Flat) . . . . .   | <b>99</b>      |
| EGA (Relisys) . . . . .             | <b>335</b>     |
| VGA (Hyundai) . . . . .             | <b>310</b>     |
| VGA (Relisys) . . . . .             | <b>330</b>     |
| VGA (View Sonic) . . . . .          | <b>320</b>     |
| VGA . . . . .                       | <b>285</b>     |
| Super VGA (0.28-1024x768) . . . . . | <b>350</b>     |
| Multisync (Relisys) . . . . .       | <b>420</b>     |
| NEC 2A/3D . . . . .                 | <b>495/599</b> |

#### Cases

|                                    |            |
|------------------------------------|------------|
| Big Vertical Case w/PS . . . . .   | <b>160</b> |
| Small Vertical Case w/PS . . . . . | <b>95</b>  |
| Deluxe Baby Case w/PS . . . . .    | <b>90</b>  |
| Regular AT Case w/PS . . . . .     | <b>95</b>  |
| Deluxe XT Case . . . . .           | <b>35</b>  |

#### Memory/Chips

|                          |             |
|--------------------------|-------------|
| 80287/80387 . . . . .    | <b>CALL</b> |
| Dram/Simm/Sipp . . . . . | <b>CALL</b> |

#### Miscellaneous

|                                     |              |
|-------------------------------------|--------------|
| Logitech Track Man . . . . .        | <b>85</b>    |
| Logitech Scan Man Plus . . . . .    | <b>165</b>   |
| Logitech Scan Man . . . . .         | <b>125</b>   |
| Logitech Hi-Res Bus Mouse . . . . . | <b>55</b>    |
| Logitech C9 Serial/Bus . . . . .    | <b>68/73</b> |
| Color Mouse . . . . .               | <b>35</b>    |
| XT Power Supply . . . . .           | <b>36</b>    |
| AT Power Supply . . . . .           | <b>48</b>    |
| Tape Back Up 40/60/120 MB . . . . . | <b>285</b>   |
| Tape Int. Controller . . . . .      | <b>83</b>    |
| Tape Ext. Controller Kit . . . . .  | <b>125</b>   |

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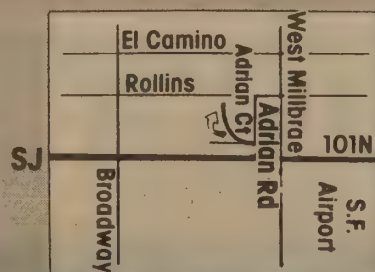
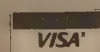
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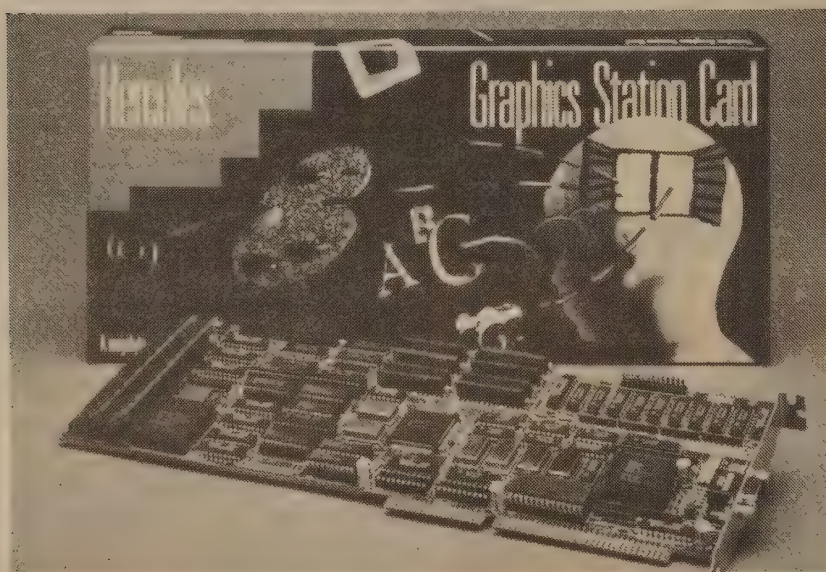
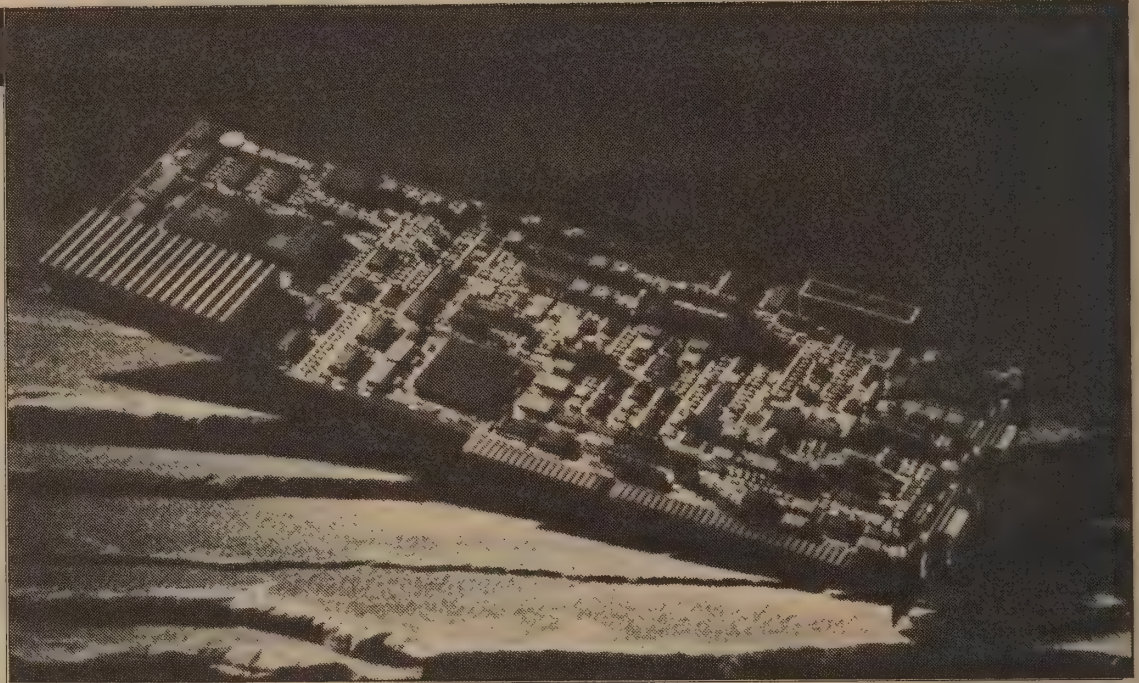
# GRAPHICS BOARDS

## TRUTH-IN-VISION

Capture and display images with high spatial and high color resolution with an ATVista from Truevision. These boards are an ideal solution for high-end graphics applications from video production and graphic design to digital pre-press and medical imaging. NTSC and PAL compatibility, multiple bit/pixel settings, programmable capture and display resolutions and a 32-bit coprocessor are just a few of the features. ATVista is designed for use in IBM PC AT and compatible computers. Truevision, Inc., 7340 Shadeland Station, Indianapolis, IN 46256. 1-800-858-TRUE.

## HERCULES TRUE COLOR GRAPHICS

The new high-performance graphics board for IBM-compatible computers, the Hercules Station Card, offers true color capabilities for pre-press and design solutions as well as increased speed for graphics intensive applications such as Windows, DTP and CAD. It is the only card that combines built-in VGA with a Texas Instruments 34010 graphics coprocessor and 24-bit color. Standard with 1Mb VRAM (video memory), this card supports a maximum resolution of 1024 x 768 with 256 colors from a palette of 16.7 million colors. (\$1024) Hercules Computer Technology, Inc., 921 Parker St., Berkeley, CA 94710. (415)540-6000.

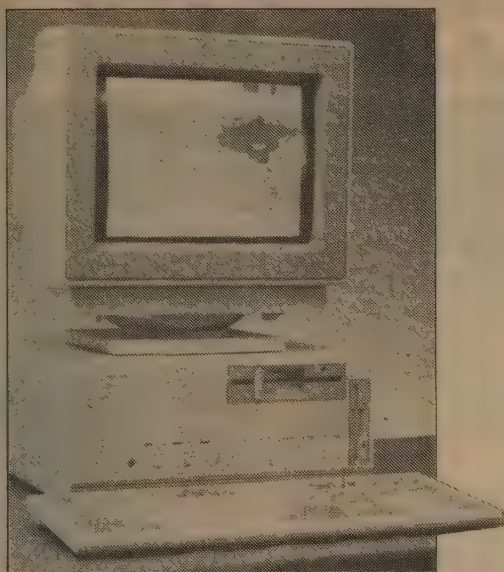


## RASTEROPS DOES PC

RasterOps Corp., a leader in color technology for the Macintosh, has entered the IBM marketplace with the RasterOps 1024MC, the first 24-bit True Color board for IBM PS/2 computers. Operating with IBM Micro Channel Architecture products, the 1024MC is capable of displaying 16.7 million colors. This capability is particularly crucial in desktop publishing, color pre-press and design applications where the display image and printed copy must match. RasterOps Corp., 2500 Walsh Ave., Santa Clara, CA 95051. (408)562-4200, Fax (408)562-4065.

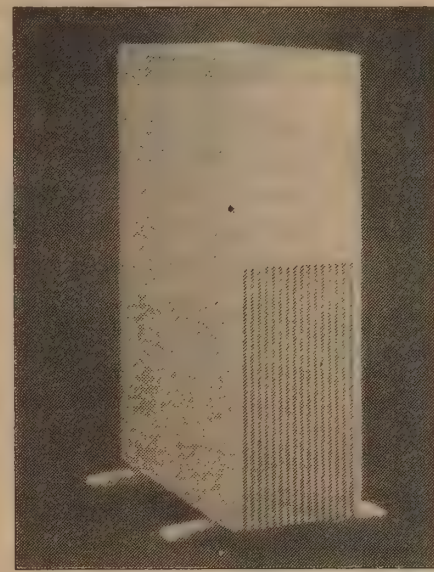






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| ST4144-R: 122-Mb/28-Ms/RLL .....      | 589           |
| TOSHIBA 3.5-In: 66-Mb/25-Ms/RLL ..... | 345           |
| CONNER: 40-Mb/18-Ms .....             | 345           |
| CONNER: 100-Mb/25-Ms .....            | 599           |
| CONNER: 200-Mb/19-Ms .....            | 899           |
| NEC: 110-Mb/18-Ms/ESDI .....          | 629           |
| NEC: 150-Mb/18-Ms/ESDI .....          | 799           |
| CONNER: 80-Mb/18-Ms .....             | 519           |
| WD: 40-Mb:1:1-HD/FD Controller .....  | 299           |
| WD: 80-Mb/18 ms Controller .....      | 499           |
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| 150-Mb/320-Mb/660-Mb...               | 940/1349/2249 |

### FLOPPY DRIVES

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| Teac 1.44-Mb .....  | 74   |
| Canon 1.44-Mb ..... | 74   |

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| Logitech Mice (C-9) ....     | from 66 |

### CONTROLLERS

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| WA-1006: MM2/MFM/HD/FD/1:1 ..... | 109        |
| WA-1006: SR2/RLL/HD/FD/1:1 ..... | 119        |
| WA-6-VR2: RLL/HD/FD/1:1 .....    | 119        |
| DTC-7287: RLL/HD/FD/1:1 .....    | 109        |

### CHIPS

|                       |                                  |
|-----------------------|----------------------------------|
| 80387-20/25/33 .....  | \$348/439/549                    |
| 64-K: 1-100 .....     | 1 <sup>65</sup>                  |
| 256-K: 1-80/100 ..... | 1 <sup>94</sup> /1 <sup>84</sup> |
| 1-Meg: 1-80 .....     | 7 <sup>75</sup>                  |
| 64-K: 4-100 .....     | 2 <sup>95</sup>                  |
| 256-K: 4-80 .....     | 7 <sup>90</sup>                  |
| 256-K: 9-80 .....     | 24                               |
| 1-Meg: 9-80/70 .....  | 73/75                            |

### PANASONIC PRINTERS

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| KX-P1191: 9-pin .....  | 219   |
| KX-P1124: 24-pin ..... | 275   |
| KX-P1524: 24-pin ..... | 495   |
| KX-P1624: 24-pin ..... | 369   |
| KX-P1695: 9-pin .....  | 419   |
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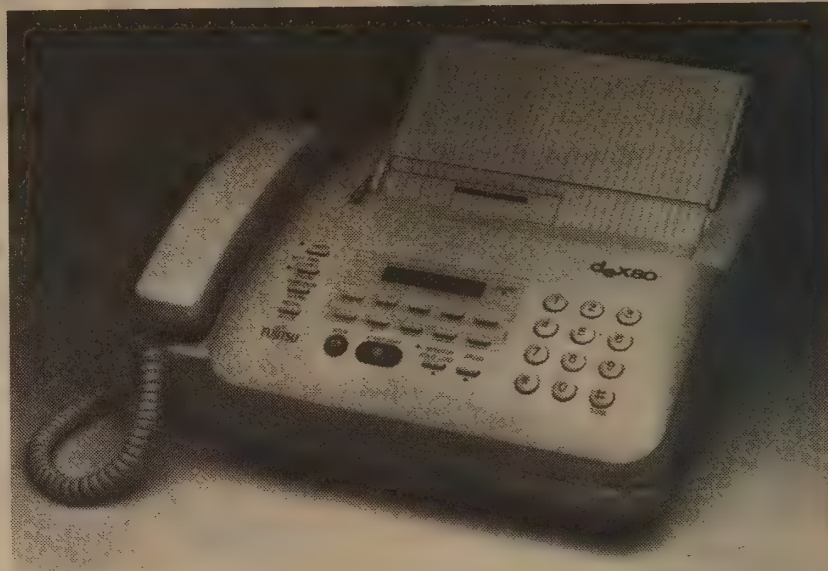


# NEW PRODUCT BUYERS GUIDE

## FUJITSU DEX 80

The new personal size facsimile from Fujitsu, the dex 80, is easy to operate and doesn't skimp on features. For business and home offices with only a single telephone line, the dex 80 offers advanced line sharing, including an answering machine interface to ensure that users will receive all of their incoming voice and fax messages when they are away from their desks. Other standard features include an auto dialer with ten one-touch and ten speed-dial locations, selective rejection, which allows the dex 80 to be programmed to reject incoming facsimiles from up to fifty designated telephone numbers, and a five page automatic document feeder. (\$999)

Fujitsu Imaging Systems of America, Inc.,  
3 Corporate Dr., Commerce Park,  
Danbury, CT 06810. (203)795-5400.



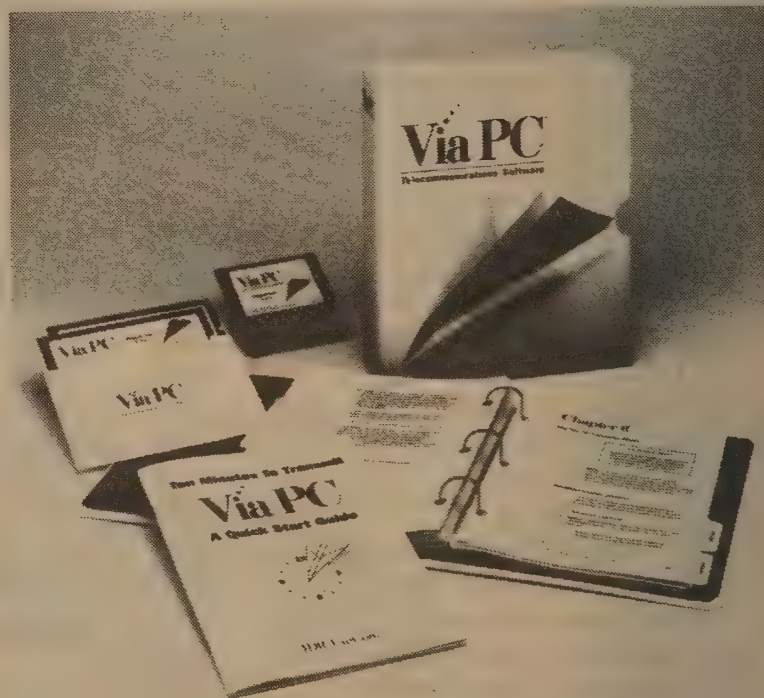
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GEC-Marconi Software Systems has introduced the world's first proven cable-free computer connection. The Verran AC DataLink is a sleek device that lets a PC communicate with a printer, plotter, modem or other peripheral. It also lets a minicomputer communicate with a terminal. DataLinks works in pairs, one attached to the sending device and the other to the receiving device. Once each DataLink is plugged into a



standard electrical outlet, data is transmitted through the building's AC circuit. It can connect peripherals with either serial or parallel ports and works in any computer environment. (\$345) GEC-Marconi Software Systems, Inc., 12110 Sunset Hills Rd., Suite 450, Reston, VA 22090. (703)648-1551.



## SEND IT ALL VIA PC SOFTWARE

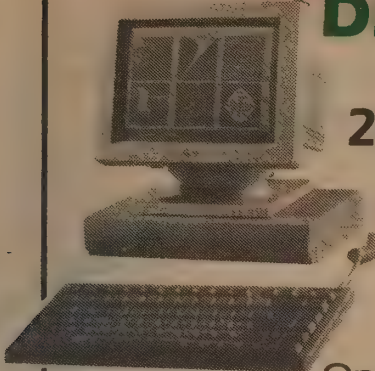
IBM PC users can now send or receive messages by Fax, Telex, TWX and Modem from anywhere at any time with one integrated software program, Via PC telecommunications software, from IDR UniCom. Using Via PC to communicate will mean easy access to the four most popular modes of business telecommunications. It also means shorter lines at the Fax machine, tighter security for confidential messages and better control overall. (\$595) IDR UniCom, Inc., 400 Stenton Ave., Plymouth Meeting, PA 19462. (215)825-8181.

Continued on page 128



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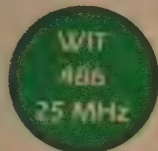
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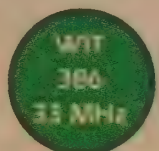
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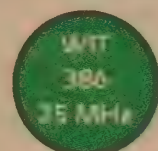
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- Real Time Clock/CMOS Memory w/Battery Back-Up
- 101 Keyboard
- 230 W Power Supply
- AT Case

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Non-Cache

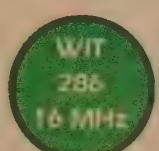
**\$949**

w/64K Cache



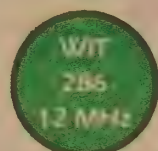
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- 1.2 or 1.44 Floppy Drive
- 1:1 Interleave FD/HD Controller
- 2 Serial/1 Parallel/1 Game Port
- Real Time Clock/CMOS Memory w/Battery Back-Up
- 101 Keyboard
- 230 W Power Supply
- AT Case

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- 1:1 Interleave FD/HD Controller
- 2 Serial/1 Parallel/1 Game Port
- Real Time Clock/CMOS Memory w/Battery Back-Up
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- 230 W Power Supply
- AT Case

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|-----------------------|-----|
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| MGP/CGP               | 39  |
| EGA 640 x 480         | 79  |
| VGA Trident (8800)    | 89  |
| Trident w/1 MB (8900) | 146 |
| Paradise (OEM)        | 95  |
| Oak                   | 75  |

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|                         |      |
|-------------------------|------|
| Relisys                 |      |
| 5154 (EGA)              | 329  |
| 5155 (Multisync)        | 419  |
| 9513 (VGA)              | 319  |
| Supertron 14" Super VGA |      |
| 1024x768                | 340  |
| Hyundai Amber Mono      | 70   |
| Samsung Color           | 275  |
| 9" Paper White          | CALL |

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|-------------------------------|------|
| Conner                        |      |
| 100 MB 25 ms                  | 519  |
| 200 MB 25 ms                  | 899  |
| W.D. 40 MB 28 ms              | 259  |
| Toshiba 3.5" 44/66 MB (23 ms) | 339  |
| Maxtor                        |      |
| 4170-E 158 MB                 | 929  |
| ESDI 4380-E 338 MB            | 1319 |
| ESDI 8760-E 679 MB            | 2099 |
| Seagate                       |      |
| ST-225 20 MB                  | 189  |
| ST-251-1 40 MB                | 259  |
| Quantum                       |      |
| 80 MB 23 ms                   | 475  |

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| IDE & FDC Card               | 25  | 9600 Fax Modem (w/S. Ware) | 235 |
| XT Multi I/O (360K)          | 30  |                            |     |
| AT Multi I/O (2S/1P/1G)      | 18  |                            |     |
| Serial Card (4 Port)         | 65  |                            |     |
| Serial Card (8 Port)         | 175 |                            |     |
| RS-232 Serial Card           | 14  |                            |     |
| Multi FDC (360K-1.44 MB) 4FD | 29  |                            |     |
| Game Card                    | 12  |                            |     |
| Real Time Clock Card         | 14  |                            |     |
| 2400 Modem (w/S. Ware)       | 75  |                            |     |

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|                       |     |
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| DOS 3.3               | 69  |
| DOS 4.01              | 71  |
| Logitech Serial Mouse | 77  |
| Logitech AT Bus Mouse | 85  |
| Scanman Plus          | 180 |



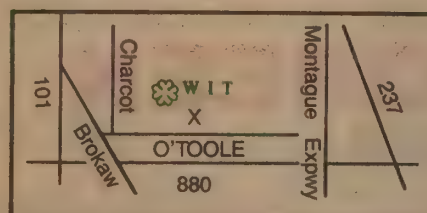
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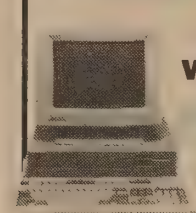
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- 1=1 Interleave HD/FD Controller
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- I/O 2 serial, 1 parallel
- Real time clock w/battery backup
- Standard AT Case w/220 W Power Supply
- 101 Keytronic keyboard
- Ideal for Desktop Publishing, CAD and Network Service
- Made in U.S.A.
- One Year Warranty on Labor & Parts

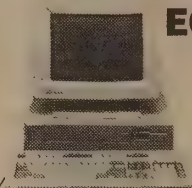
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- 1.2 MB and 1.44 MB Floppy Drive
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- 80 MB 28 ms Hard Drive
- I/O 2 serial, 1 parallel
- Real time clock w/battery backup
- Standard AT Case w/220 W Power Supply
- 101 Keytronic keyboard
- Ideal for Desktop Publishing, CAD and Network Service
- Made in U.S.A.
- One Year Warranty on Labor & Parts

**CHRISTMAS SPECIAL**

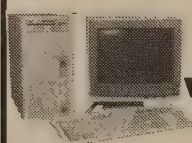


### ECI 386-25 MHz System W/65 MB Hard Disk

**\$1259**

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- Math Co-processor Socket
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- 1=1 Interleave HD/FD Controller
- 65 MB 28 ms Hard Drive
- I/O 2 serial, 1 parallel, 1 game
- Real time clock w/battery backup
- Standard AT Case w/220 W Power Supply
- 101 keyboard
- Ideal for Desktop Publishing, CAD and Network Service
- Made in U.S.A.
- One Year Warranty on Labor & Parts

**CHRISTMAS SPECIAL**



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- Landmark =22 SI =20
- 1 MB RAM expandable to 8 MB
- 16 MHz Intel 80386SX CPU running at 0/1 Wait State
- 80387SX Math Co-processor Socket
- 6 x 16, 2 x 8 bit slots
- 1.2 MB or 1.44 MB Floppy Drive
- 40 MB 28 ms Hard Drive w/controller
- I/O 2 serial, 1 parallel, 1 game
- Real time clock w/battery backup
- MINI Vertical Case w/200 W Power Supply
- 101 keyboard
- An affordable system w/386 power
- Made in U.S.A.
- One Year Warranty on Labor & Parts



### ECI 286-12/16 MHz w/40 MB Hard Disk 28ms

**\$625/\$689**

- Baby size main board running at 6/12 or 8/12 0/1 Wait State
- 1 MB RAM expandable to 4 MB
- 12/16 MHz Intel 80286 CPU, AMI BIOS
- 80287 Math Co-processor Socket
- 5 x 16, 3 x 8 bit slots
- 1.2 MB or 1.44 MB Floppy Drive
- 40 MB 28 ms Hard Drive w/controller
- I/O 2 serial, 1 parallel
- Real time clock w/battery backup
- MINI Vertical Case w/200 W Power Supply
- 101 keyboard
- Very large scale integration chip set, eliminating overheating problems, and energy saving.
- Made in U.S.A.
- One Year Warranty on Labor & Parts

### MAXTOR HARD DISKS

|                               |           |
|-------------------------------|-----------|
| XT-1085 71 MB 28ms MFM        | \$549     |
| XT-4170 158 MB 14MS SCSI/ESDI | 895/850   |
| XT-4380 338 MB 16ms SCSI/ESDI | 1295/1295 |
| XT-8760 768 MB 16ms SCSI/ESDI | 1850/1850 |

### CONNER HARD DISKS

|                         |       |
|-------------------------|-------|
| CP-3104 104 MB 25ms IDE | \$499 |
| CP-3204 200 MB 25ms IDE | 819   |

### QUANTUM HARD DISKS

|                        |       |
|------------------------|-------|
| PRO80AT 80 MB 19ms IDE | \$469 |
|------------------------|-------|

### NEC HARD DISKS

|                                   |       |
|-----------------------------------|-------|
| NEC D-3142 65 MB 23ms 3 1/2 RLL   | \$299 |
| NEC D-3661 110MB 18ms 3 1/2 ESDI  | 589   |
| NEC D-5655 150 MB 18ms 5 1/4 ESDI | 679   |

### SEAGATE HARD DISKS

|                     |       |
|---------------------|-------|
| ST-225 20 MB        | \$189 |
| ST-251-1 40 MB 28MS | 279   |
| ST-4096 80 MB 28ms  | 495   |

### WESTERN DIGITAL

|                        |       |
|------------------------|-------|
| 40 MB IDE 28ms w/cont  | \$279 |
| 85 MB IDE 18 ms w/cont | 489   |

### FLOPPY DRIVES

|                                 |         |
|---------------------------------|---------|
| 360K/1.2MB Floppy Drive 5 1/4"  | \$60/70 |
| 720K/1.44MB Floppy Drive 3 1/2" | 60/70   |

### INTEL MATH CO-PROCESSORS

|                         |       |
|-------------------------|-------|
| 80287-10 for 286 system | \$225 |
| 387SX-16                | 315   |
| 387DX-20                | 350   |
| 387DX-25                | 440   |
| 387DX-33                | 540   |

### MONITOR OPTIONS

|                                                     |      |
|-----------------------------------------------------|------|
| Mono Monitor with Card                              | \$95 |
| VGA Monitor with 16 bit Card                        | 385  |
| Super VGA (1024 x 768) VGA monitor with 16 Bit Card | 469  |

### MONITORS

|                                      |      |
|--------------------------------------|------|
| 12" Hi-Res Amber monitor             | \$70 |
| 14" Hi-Res Flat Screen Amber Monitor | 105  |
| NEC Multisync 2A 800 x 600           | 450  |
| NEC Multisync 3D 1024 x 768          | 619  |
| Sony 1302A 900 x 560                 | 579  |
| Sony 1304 1024 x 768                 | 659  |
| Goldstar EGA Monitor 640 x 350       | 285  |
| Goldstar VGA Monitor 700 x480 0.39   | 305  |
| Goldstar Monitor 720 x 4000 0.31     | 350  |
| Panasonic C1381 1024 x 768           | 395  |

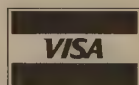
### ADD ON BOARD

|                                            |          |
|--------------------------------------------|----------|
| AT I/O Card 2S/1P/1G                       | \$25     |
| Mono Graphic/ Printer                      | 25       |
| Color Graphic/Printer                      | 35       |
| XT High Density Floppy Cont                | 35       |
| XT Hard Disk Cont                          | 49       |
| EGA 600 x 800 Card                         | 79       |
| ATI 16 bit VGA 1024 x 768 256k(wonder)oemi | 185      |
| ATI 16 bit VGA 1024x768 256k(wonder)       |          |
| w/MOUSE                                    | 215      |
| Serial/Printer/Game Card                   | 16/16/16 |
| MFM 1:1 HD/FD Cont                         | 69       |
| IDE Dual HD/FD Cont                        | 35       |
| SCSI 1:1 HD/FD Cont                        | 275      |
| ESDI 1:1 HD/FD Cont Ultrastore w/32K       | 190      |
| RLL 1:1 HD/FD Cont                         | 98       |
| Ahead VGAS 1024 x768 256K/512K             | 95/125   |
| Trident 1MB Video Card Windows 3.0 DR      | 169      |
| Orchid Pro Designer II 512K/1 MB           | 219/259  |
| 1024 x 768 Fastest VGA Card                |          |



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- Not responsible for typographical errors
- Prices based on cash prices



# EVERGREEN

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**(415) 526-8667**

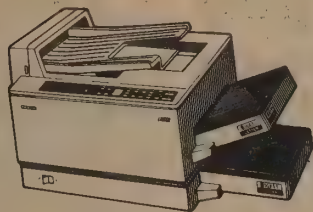


**FAX (415) 526-1447**



# Panasonic

Office Automation 



**KX-P4455**  
PostScript



**NEW**

- 8 pages per minute
- 250 sheet capacity
- 300 dpi resolution
- 512K RAM exp. to 4.5MB

**\$769**

- 2MB RAM exp. to 4MB
- 11 pages per minute
- 500 sheet paper capacity
- 26 internal fonts

**\$1999**

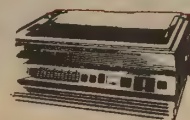
## Panasonic

Office Automation 

**Laser Partner**  
**KXP-4450**

- 11 pages per minute
- 300 DPI resolution
- 5 printer emulations
- 512K RAM upgradeable to 1.5MB
- One year limited warranty

**\$1199**



## Panasonic

Office Automation 

|                                     |       |
|-------------------------------------|-------|
| KXP 1124 • 192 CPS, 80 COL, 24-PIN  | \$275 |
| KXP 1180 • 192 CPS, 80 COL, 9-PIN   | 149   |
| KXP 1191 • 240 CPS, 80 COL, 9-PIN   | 219   |
| KXP 1524 • 240 CPS, 132 COL, 24-PIN | 475   |
| KXP 1624 • 192 CPS, 132 COL, 24-PIN | 375   |
| KXP 1695 • 330 CPS, 1332 COL, 9-PIN | 399   |

TWO YEAR LIMITED WARRANTY

### EPSON

|                             |       |
|-----------------------------|-------|
| LX-810 9 pin 200 cps 80 col | \$179 |
| FX-850 9 pin 264 cps 80 col | 339   |
| PX-1050 WIDE CLEARANCE      | 599   |
| LQ-850 264 cps, 88 cps LQ   | 469   |
| LQ-510 24 pin 180 cps       | 279   |
| LQ-860 NEW! COLOR version!  | 589   |
| LQ-1010 180 cps             | 439   |
| EPL 6000 Laserprinter       | 849   |

• 2 Year Warranty

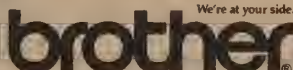
### SWITCH BOX

|                     |                     |
|---------------------|---------------------|
| • NO252 AB 25PIN    | \$14. <sup>95</sup> |
| • NO254 ABCD 25PIN  | 19. <sup>95</sup>   |
| • NO252X AaBb       | 21. <sup>95</sup>   |
| • NO362 AB 36PIN    | 19. <sup>95</sup>   |
| • NO364 ABCD 36PIN  | 21. <sup>95</sup>   |
| • NO362X AaBb 36PIN | 23. <sup>95</sup>   |
| • NO9x4 ABCD 9PIN   | 18. <sup>95</sup>   |

### KEYBOARDS



|                       |         |
|-----------------------|---------|
| Omnkey/102            | \$79    |
| Omnkey/Plus           | 99      |
| Omnkey/Ultra          | 119     |
| Keytronic 101 key     | 49      |
| Focus Keyboard        | From 59 |
| Enhanced 101 Keyboard | 35      |



|                         |       |
|-------------------------|-------|
| M1809 360cps; 75cps NLQ | \$339 |
| M1909 Wide Carriage     | 429   |
| M1824 270cps; 90cps NLQ | 439   |
| M1924 Wide Carriage     | 549   |



|           |                          |       |
|-----------|--------------------------|-------|
| NX-2410   | 170 cps, 80 col, 24-pin  | \$239 |
| NX-2415   | 200 cps, 132 col, 24-pin | 429   |
| NX-1000II | 180 cps, 80 col, 9-pin   | 159   |
| NX-1000 R | 144 cps, 80 col, 9-pin   | 199   |

## CITIZEN



**COLOR**  
**OPTION**  
**\$49**

**GSX-140**

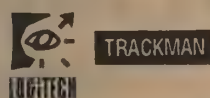
- 24 pin for true letter quality
- 192 cps; 64 cps LQ
- LCD front panel displays
- 2 year warranty

**\$275**

**GSX-200GX**

- 9 pin 213 cps
- 40 cps NLR

**\$169**



- 300 dpi resolution
- Requires little desk space
- Thumb-ball for extra comfort
- Small ball for extra precision

|                          |                    |
|--------------------------|--------------------|
| • Serial mouse C9 320dpi | \$69 <sup>95</sup> |
| • Bus Mouse C9 320dpi    | 75 <sup>95</sup>   |
| • Serial TRACKMAN 320dpi | 85 <sup>95</sup>   |
| • Bus TRACKMAN 320dpi    | 89 <sup>95</sup>   |
| • SCANMAN PLUS           | 165 <sup>95</sup>  |
| • Catchword              | 149 <sup>95</sup>  |
| • Serial mouse w/Windows | 149                |

### NEC

|                              |       |
|------------------------------|-------|
| P6200 300 cps 24 pin         | \$489 |
| P6300 Wide Carriage          | 599   |
| P2200XE 24 pin 192 cps draft |       |
| 80 cps LQ                    | 259   |

### OKIDATA

|               |     |
|---------------|-----|
| ML320 300 cps | 339 |
| ML380 180 cps | 259 |
| ML390 Plus    | 459 |

### AUTO DATA SWITCH WITH BUFFER

**ASB422-256K** ..... \$249

- 4 computers share 2 printers • Auto scan or key switch with 256K buffer
- Transfer rates 1K a byte/sec/port • LED display, which shows quantity of copies, can be easily set by + or - button

**ASB624-256K/512K** ..... 359/399

- 6 computers share 4 printers • Port selection through soft code or at the press of a key switch • 256K memory

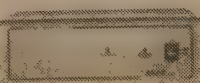
### AUTO SCAN SWITCH, BUFFER CONVERTER

This auto scan switch allows multiple computers to share one printer without the need for manual switching.

|                                                       |       |
|-------------------------------------------------------|-------|
| • MP401 4 computers share one printer (DB25 parallel) | \$108 |
| • MP801 Same as MP401, except using 8 ports           | 135   |
| • MS401 4 computers share one serial peripheral       | 114   |
| • MS801 Same as MS401, except using 8 ports           | 139   |

## SAFE

POWER SYSTEMS



NOVELL BACKUP

- Backup power systems (UPS & SPS) U.L. listed • Batteries always on charge
- Two year warranty • Built-in surge suppression

| 250                                                                                                                                                                                                                          | 425/425A                                                                                                                                                                                                                                          | 500/500A                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 2-4ms transfer</li> <li>• 10-15 minute backup</li> <li>• Overvoltage protection</li> <li>• Overload &amp; short-circuit protection</li> <li>• Batteries always on charge</li> </ul> | <ul style="list-style-type: none"> <li>• 2-4ms transfer</li> <li>• 10-30 minute backup</li> <li>• Visual/audible indicators</li> <li>• Overvoltage protection</li> <li>• Batteries always on charge</li> <li>• DB9 UPS monitoring port</li> </ul> | <ul style="list-style-type: none"> <li>• Sine wave output</li> <li>• 1-2ms transfer/9-25 minute backup</li> <li>• Overvoltage protection</li> <li>• Overload &amp; short-circuit protection</li> <li>• Push to test switch</li> <li>• DB9 UPS monitoring port</li> </ul> |

**\$159**

**\$359/395**

**\$459/495**

Available options: (A) Following a model number designates Novell compatible remote alarm interface. For more information please call.

### GREAT DEALS



|                       |       |
|-----------------------|-------|
| HP DeskJet 500        | \$559 |
| HP DeskJet Plus       | 664   |
| HP DeskWriter Printer | 699   |
| HP LaserJet IIP       | 980   |
| HP LaserJet III       | 1599  |
| HP PaintJet           | 959   |
| HP PaintJet XL        | 1699  |

### INK JET SUPPLIES

|                                             |                    |
|---------------------------------------------|--------------------|
| HEL 51604A Think/Quietjet                   |                    |
| Black Cartridge                             | \$15 <sup>95</sup> |
| HEL 51606A Paintjet/Paintjet XL             |                    |
| Black Print Cartridge                       | 26 <sup>95</sup>   |
| HEL 51606C Paintjet Color Print C cartridge | 29 <sup>95</sup>   |
| HEL 51608A Deskjet/Deskwriter               |                    |
| Black Print Cartridge                       | 18 <sup>95</sup>   |
| HEL 92261A Thinkjet/Quietjet                |                    |
| Black Printhead Ink Cart                    | 15 <sup>95</sup>   |

**AMS 2400 Baud Internal Modem \$79**  
5 year warranty • Made in U.S.A.



9600

The power of a fax machine in apc  
5 Year Warranty • Made in U.S.A.

**\$169**

### RIBBONS

|                                 |                    |
|---------------------------------|--------------------|
| HEL 92156S Rugged Writer Ribbon | \$14 <sup>95</sup> |
|---------------------------------|--------------------|

### LASER SUPPLIES

|                                           |                  |
|-------------------------------------------|------------------|
| HEL 92275A HP Laserjet IIP Black Toner    |                  |
| Cartridge                                 | 79 <sup>95</sup> |
| HEL 92282A HP Laserjet 2000 Black Toner   |                  |
| Pack                                      | 35 <sup>95</sup> |
| HEL 92295A HP Laserjet II/III Black Toner |                  |
| Cartridge                                 | 89 <sup>95</sup> |

### PLOTTER PAPER & FILM

|                                              |                  |
|----------------------------------------------|------------------|
| HEL 17702T 8 1/2" x 11" Transparency Plotter |                  |
| Film                                         | 35 <sup>95</sup> |
| HEL 17801P 8 1/2" x 11" Non-Glossy Plotter   |                  |
| Paper                                        | 14 <sup>95</sup> |

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**JUMBO + Tape Backup**

- 120MB capacity
- Fastspeed
- IBM PS/2, PC, AT XT, compatible

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**FCC  
Class B**

**64K Cache  
Performance**

**\$999**

**Complete 386-16MHz,  
40MB HDD, 64K Cache w/ 1MB RAM system**

**SI: 18.4 LandMark: 23.2**

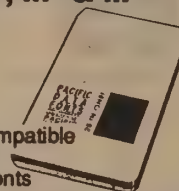
- EV 346 1-1 interleave controller • Seagate ST 251-1 40MB HDD
- Keytronic 101 key Keyboard • Teac 1.2MB FDD
- AMI BIOS • FCC Class B approval • 5 half-height drive bays
- Clock/Calendar/Configuration data in CMOS RAM w/ battery backup
- Monochrome Graphic Card • APEX monochrome Monitor

## PACIFIC DATA PRODUCTS

**25 Cartridges in One!™  
FULLY COMPATIBLE  
w/ HP II, IID, IIP & III**

**CF125  
\$229**

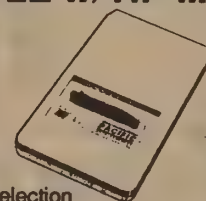
- 172 fonts & symbol sets
- HP, Canon & Olivetti compatible
- Portrait & Landscape
- Fast & easy access to fonts



**Pacific Outlines™  
Scalable Outline Font Cartridge  
COMPATIBLE w/ HP III**

**\$165**

- Scale fonts to 999.75
- Same font quality & selection as HP outline font cartridges
- 17 symbol sets
- Ideal for DTP or general documents



**Pacific 4 Memory™  
Upgradeable memory for  
HP II, IIP & III**

- Fully upgradeable
- Easy to install

**1MB/2MB ..... \$169/249  
3MB/4MB ..... \$329/409**

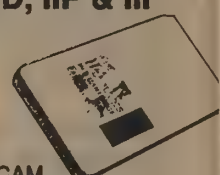


**Plotter in a Cartridge™  
FULLY COMPATIBLE  
w/ HP IID, IIP & III**

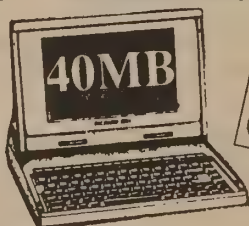
**CE151**

**\$269**

- Compatible w/CAD/CAM, Engineering & graphic software
- Up to 1/3000 inch resolution
- Full emulation of over 50 HPGL
- Automatic scaling for all paper sizes



## PACKARD BELL 286-12MHz Laptop

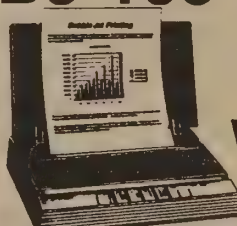


**FREE  
Carrying Case!**

- 1MB RAM exp to 5MB
- 1.44MB 3.5" FDD
- 40MB HDD
- VGA backlit display
- MS-DOS 3.3 GW

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## Canon BJ-10e portable printer



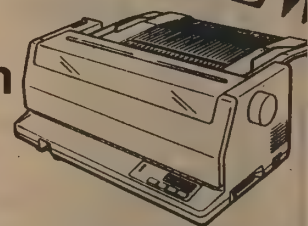
**Weights 5 lbs.**

- 83 characters per second
- 360x360 dpi resolution
- Optional rechargeable battery
- IBM Proprinter & BJ-130e emulation
- Weights less than 5lbs.

**\$349**

## FUJITSU DL1100

**110 Column  
Printer**



- 240cps, 60cps LQ
- 5 resident LQ fonts
- 3 resident emulations included IBM Proprinter
- 2 year warranty

**\$299**

**Color  
Version**

**\$349**

### SOFTWARE

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**LIMITED QUANTITIES ON HAND!**

**Word Perfect  
Version 5.1**

- Pull-down menus
- Spreadsheet Import • Integrated text & graphic
- Speller/Thesaurus/Hyphenation

**\$249**



|                                |      |
|--------------------------------|------|
| PrintShop                      | \$36 |
| Quicken 4.0                    | 39   |
| ProComm                        | 69   |
| Microsoft MS-DOS 4.01          | 79   |
| Microsoft MS-DOS & Windows 3.0 | 149  |
| PC Tools deluxe 6.0            | 89   |
| MS Works                       | 99   |
| Norton Utilities 5.0           | 119  |
| EXCEL for Windows              | 309  |
| WORD for Windows               | 319  |

**NCL AMERICA  
Hand-Held Scanner**

- 200dpi
- Multiple File formats
- 4"x18" scan width



**\$89**

**FUJITSU Hard Drives**  
2246 172MB ESDI \$839  
2614 182MB 899

|                                         |        |
|-----------------------------------------|--------|
| BROTHER HL-8PS postscript laser printer | \$1899 |
| HYUNDAI Super 386SX computer            | 899    |
| VIDEO SEVEN VRAM VGA 256K               | 289    |
| NEC GS2A monitor                        | 199    |
| PARADOX 3.0                             | 399    |
| LAPLINK PLUS                            | 39     |
| ACCUCARD                                | 119    |

**ScanMan  
Model 256 & Ansel™  
Hand-Held Scanner**

**LOGITECH**

- 100-400 dpi adjustable resolution
- Ansel Image Editing & SoftMate software
- 256 grey scale

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**Series 9  
serial Mouse**

**\$69**



- Uses 62% less desk space
- Precise pointer control
- Adjustable resolution...50-19,000dpi

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- 300 dpi resolution
- Requires little desk space
- Thumb-ball for extra comfort
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**FAX 247-4448**

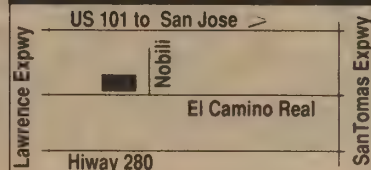


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40 MB HDD w/ 2 MB RAM SYSTEM**



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LandMark: 25.8

**2MB RAM  
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Specially Priced at  
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**\$1299**

- 20MHz 80386CPU • 40MB IDE HDD
- 2MB RAM exp to 16MB on motherboard • Parallel & Serial Ports
- 1.2MB FDD • MS-DOS 3.3 w/GW-BASIC • 101 key keyboard
- APEX Mono monitor • 1 year EPSON nationwide warranty

**ACCESS, We Made EPSON  
affordable!**

**Special Purchase! Only 250 in stock!**

**EQUITY LT laptop 2 Floppy Drives**

Specially Priced at  
**ACCESS**  
**\$555**

**FREE  
Carrying Case  
& LapLink PLUS**

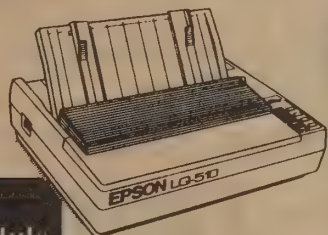


- 640K RAM memory • Reflective supertwist screen
- MS-DOS 3.2 w/GW-BASIC • Rechargeable battery operated
- 1 year EPSON nationwide warranty • 2 internal expansion slots
- Built-in serial, parallel & 5.25" external floppy drive ports

**AUTHORIZED EPSON SALES & SERVICE CENTER**

**LQ-510**

*Hundreds in stock!*



**FREE**

Multi-Font Module  
w/ LQ-510 purchase

- 24-Pin Letter Quality printer
- 180cps, 60cps LQ
- Built-in letter quality fonts
- Epson 1 year warranty

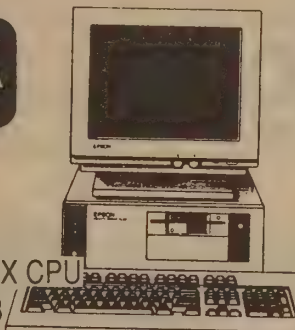
**\$269**

**EQUITY 386SX PLUS**

**FREE  
Monochrome VGA  
Monitor**

**\$1399**

- 16MHz, 0 wait, 80386SX CPU
- 1MB RAM exp to 16MB
- 1.2MB or 1.44MB FDD
- Built-in VGA graphics
- 4 expansion slots & 3 1/2 height drive bays
- 1 year EPSON nationwide warranty



**EQUITY LT-286e  
laptop**

**20MB**

**\$2095**



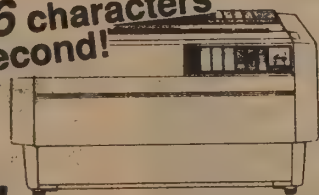
- 12MHz 80C286 w/20MB HDD
- 1MB RAM exp to 2MB
- MS-DOS 4.01 included
- "Paper-White" display
- 1.44MB 3.5" internal FDD

**ACCESS, we made computing affordable!**

**DFX-8000  
High-Speed Printer**

**Prints 1066 characters  
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- EPSON's 1 year nationwide warranty

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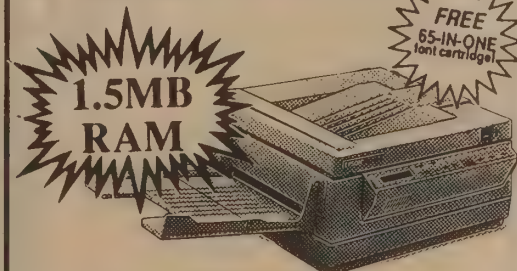


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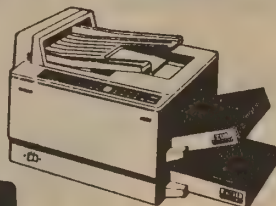
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**KX-P4455** PostScript

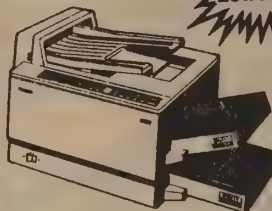
**KX-P4450i**



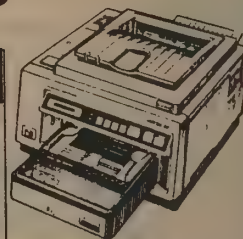
**KX-P4420**



| Accessories & Supplies for 4455/4450i |      |
|---------------------------------------|------|
| Legal Tray .....                      | \$49 |
| Envelope Tray .....                   | 69   |
| Toner .....                           | 39   |
| Drum Unit .....                       | 149  |
| Developer .....                       | 99   |



| Accessories & Supplies for 4420 |      |
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| Legal Tray .....                | \$45 |
| Envelope Tray .....             | 69   |
| Toner .....                     | 39   |
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- 500 sheet paper capacity
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- 512K RAM exp to 4.5MB
- 6 software emulations
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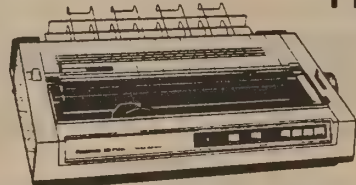
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- 8PPM
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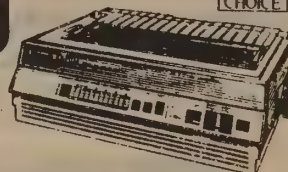


- 240cps, 80cps LQ
- Wide 15" carriage
- Memo load for singlesheet paper w/out removing tractor feed

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**KX-P1124**

**OPTIONAL**  
Cut Sheet Feeder \$129

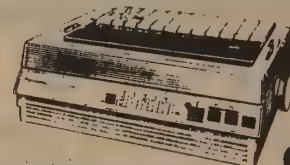


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- 5 built-in LQ Fonts
- 2 year limited warranty

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**GREAT PRINTER VALUE!!**



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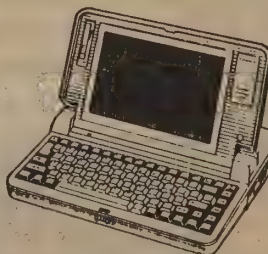
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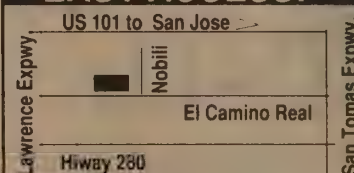
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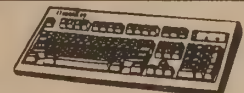
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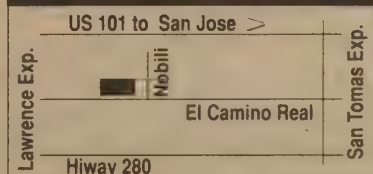


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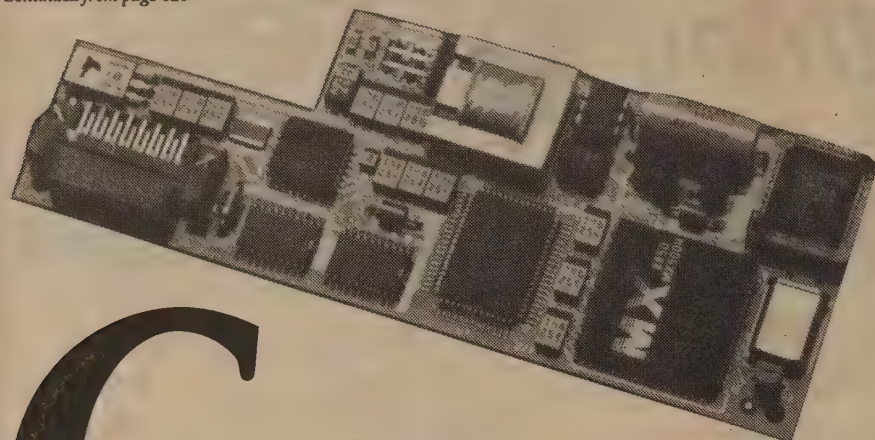


MON-FRI 9-7 SAT 10-5  
SUN 12-5

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Continued from page 120



# C COMMUNICATIONS

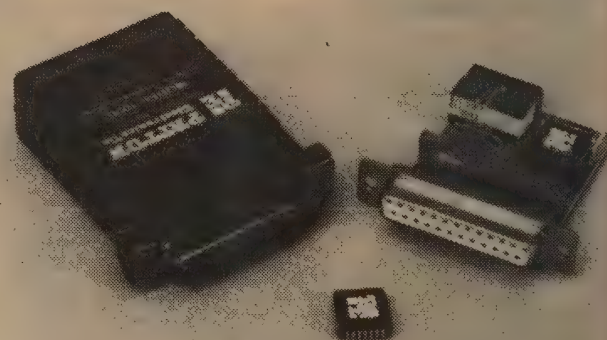
## MACRONIX FAX/MODEM FOR TOSHIBA LAPTOP

Micronix has introduced the MaxFax 962LT-T, an integrated fax/modem for the Toshiba family of laptop and notebook computers. It fits into the small, internal T.24D modem slot on the T1000SE, T1000XE, T1200XE, T1200, T1600, T3100SX and T3200SX models. MaxFax features an auto direct function that determines whether an incoming call is for the fax or modem and processes the call accordingly. MaxFax also operates in the background, allowing other work to be performed. It supports dot matrix and laser printers and allows direct faxing from scanner input. (\$599) Macronix, Inc., 1348 Ridder Park Dr., San Jose, CA 95131. (408)453-8088, Fax (408)453-8488.

## SMALLER & QUICKER FOR SHORT DISTANCES

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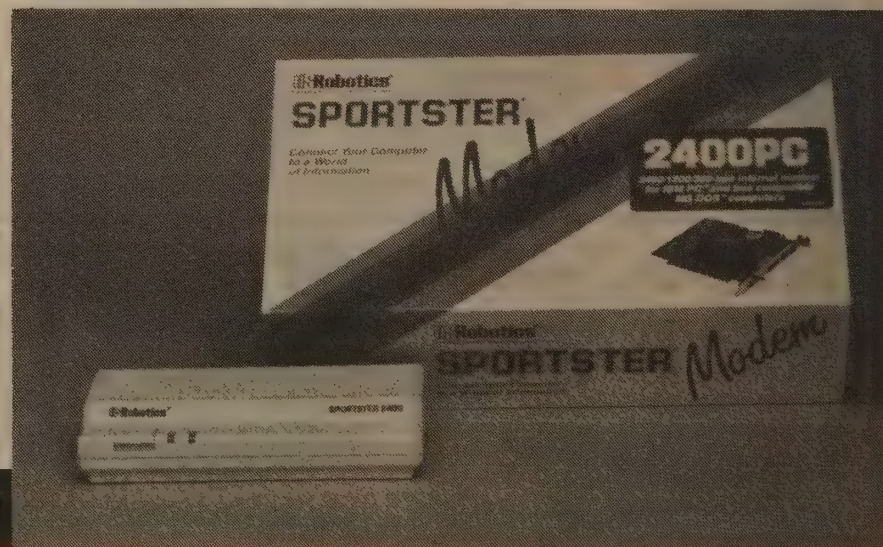


## THREE BOARDS IN ONE

Intel PCEO's SatisFAXtion board combines a 6900bps fax modem, 2400 MNP (Microcom Networking Protocol) 5 data modem and grayscale scanner port in a single slot. SatisFAXtion WYPIWYF pop-up menu lets users fax as easily as printing, without leaving their primary application. To send a fax, the user selects the fax printer and the pop-up menu appears. This board uses a 16MHz 80186 processor to fax in the background. In addition, SatisFAXtion supports the Intel/DCA Communicating Applications Specifications, enabling developers to incorporate custom fax capabilities into their applications. The board is hardware ready for integration into OS/2 environments. (\$499 for classic-bus PCs and \$549 for MCA computers) Intel Corp., Personal Computer Enhancement Operation, C03-7, 5200 N.E. Elam Young Pkwy., Hillsboro, OR 97124. 1-800-538-3373.

## ENTRY MNP PRODUCTS FROM US ROBOTICS

The Sportster 2400MNP/internal and Sportster 2400MNP/external from US Robotics offer low-cost modems with MNP levels of 1-5 error control and data compression. (US Robotics also includes the Communications by Crosstalk software package with all Sportster internal models.) Sportster models accept industry standard AT commands, assuring compatibility with all popular data communications software. The external model can also be connected to any personal computer or data terminal with an RS232C serial interface. Other features include LED status indicators, automatic speed matching, call-progress reporting, compact size, on-modem summary manual and NRAM. NRAM, or nonvolatile RAM, is electronic memory that does not lose its data on loss of power. (Prices range from \$139 to \$299) US Robotics, Inc., 8100 N. McCormick Blvd., Skokie, IL 60076. 1-800-DIALUSR.





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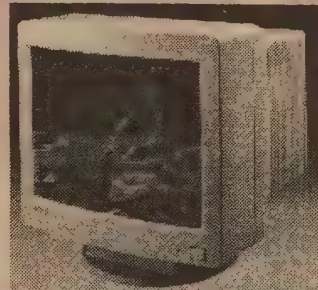
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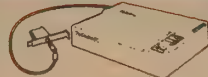
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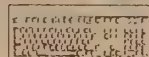
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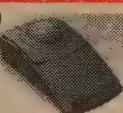
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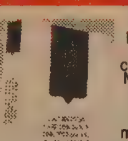


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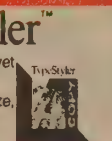


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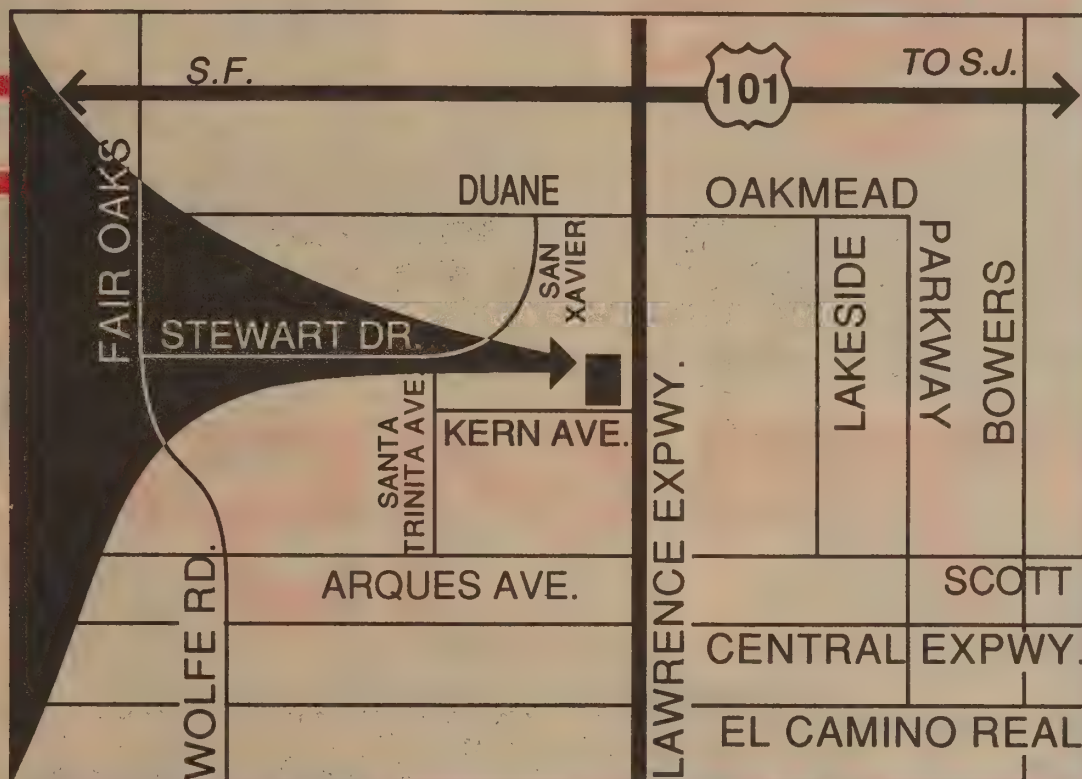


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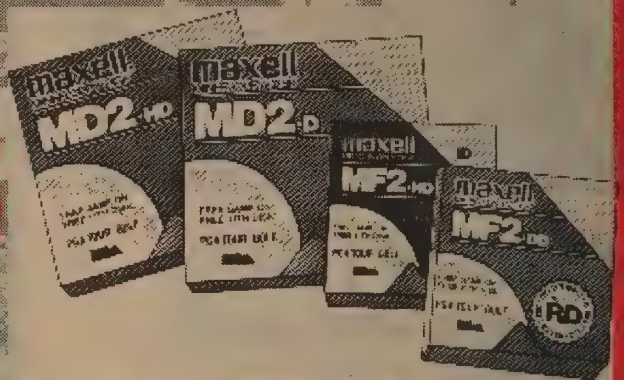
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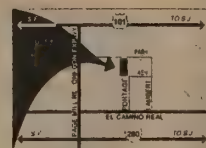
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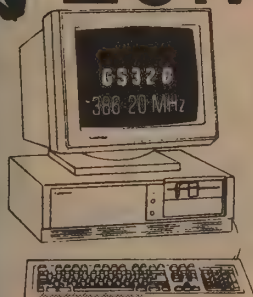
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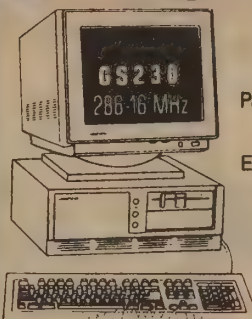
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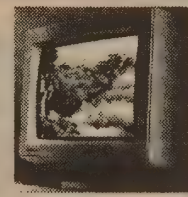
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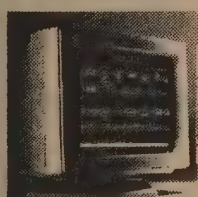
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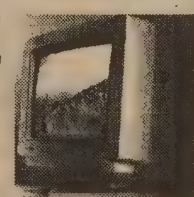
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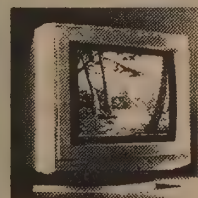
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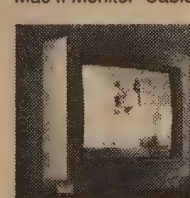
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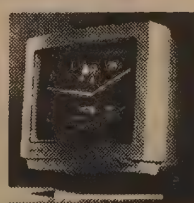
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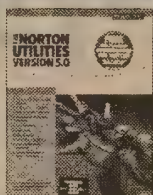
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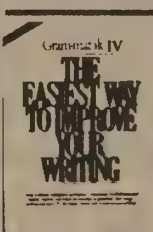


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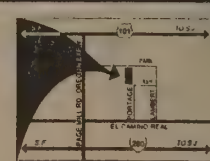
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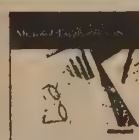


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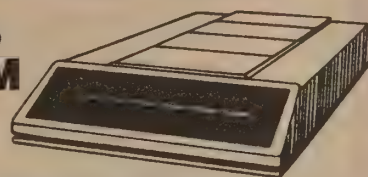
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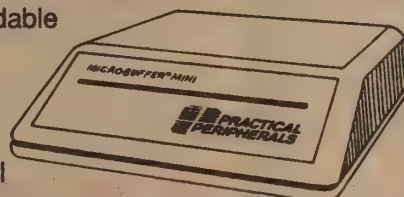
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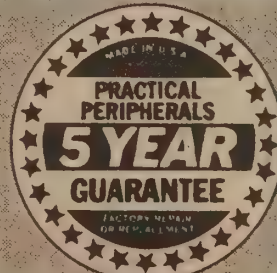
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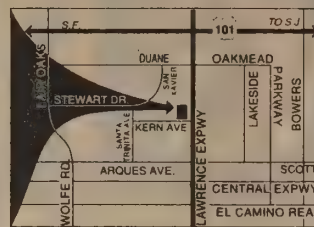
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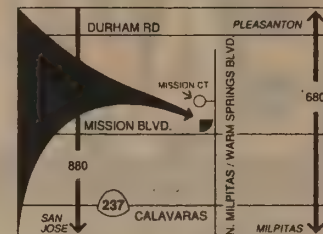
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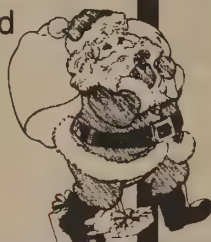


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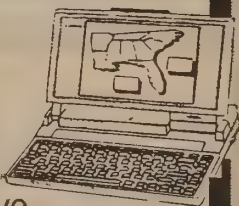
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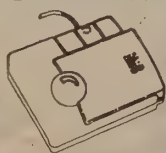
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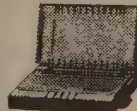


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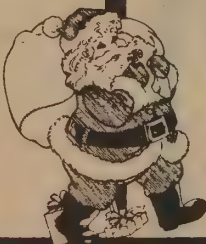
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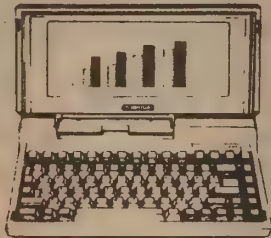
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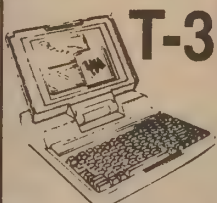
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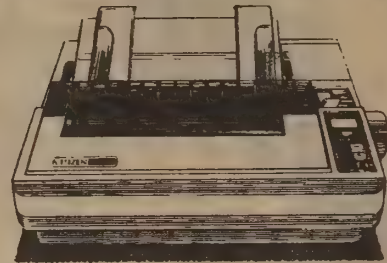
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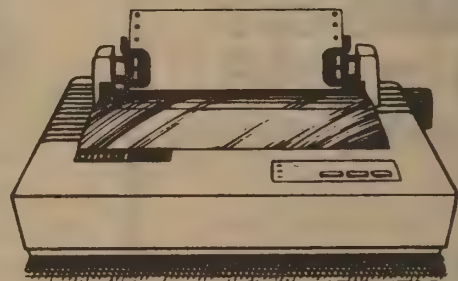
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- Envelope printing
- Two-year warranty
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## GSX-140

- 192 cps draft speed, 64 cps letter quality
- Epson LQ2550, IBMX24 Pro printer compatible
- Command-View display panel gives you complete control of over 75 functions from the front panel, and allows you to set up Macros that make the GSX-140 four printers in one
- Convertible push/pull tractor
- Bottom feed, Paper parking
- Top-of-Form feature, continuous paper tear-off feature
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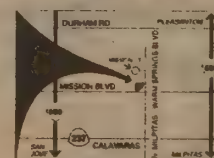
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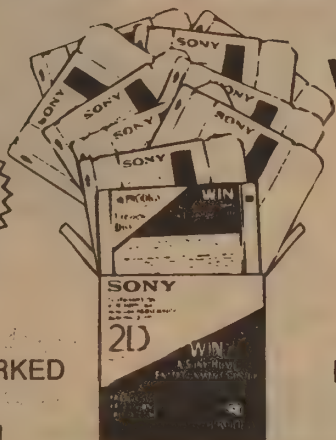
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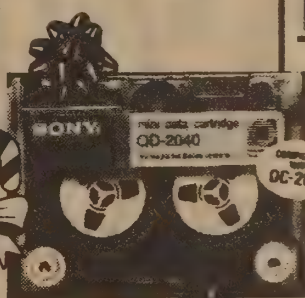
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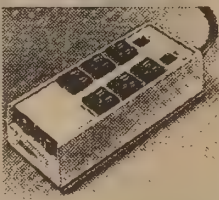
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### POWER TREE 50

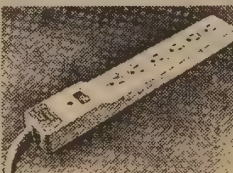
**Technical Specifications:**  
 Surge Suppression Indication: LED and buzzer alarm  
 Rated Voltage: 120 Volts AC  
 Clamping Voltage: 340V  
 Energy Rating: 120 Joules  
 Typical Response Time: <1 nanosecond  
 Noise Rejection Frequency:  
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 Fax and Modem Protection



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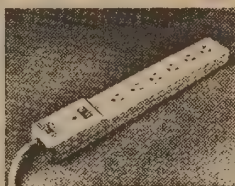
**Technical Specifications:**  
 Surge Suppression Indication: LED and buzzer alarm  
 Rated Voltage: 120 Volts AC  
 Rated Current: 15 amps  
 Clamping Voltage: 340V  
 Current Peak: 4500 Amps  
 Energy Rating: 120 Joules  
 Typical Response Time: <1 nanosecond  
 Noise Rejection Frequency:  
 100 kHz to 100MHz  
 Attenuation: 3dB to 50dB  
 Warranty: 1 Year



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 Rated Voltage: 120 Volts AC  
 Rated Current: 15 amps  
 Clamping Voltage: 340V  
 Current Peak: 4500 Amps  
 Energy Rating: 120 Joules  
 Typical Response Time: <1 nanosecond  
 Warranty: 1 Year



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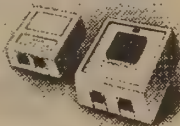
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- Three-Button Operation
- User Configurable Menu Software



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MODEL 10.....\$14<sup>99</sup>  
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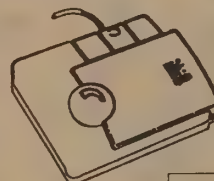
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High Resolution  
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 combines the  
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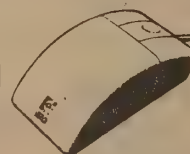
100 to 400 DPI  
 Dual Rollers  
 4.2" Wide X 15" Long



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### 3 BUTTON MOUSE

Series 9  
 Ballistic Speed  
 50-19,000 DPI



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### ScanMan HAND SCANNER

4" Wide by 14" Long  
 100 to 400 DPI  
 32 Grey Scale



**\$179**

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For IBM PS/2 and  
 Compatibles  
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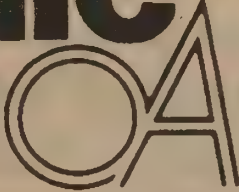


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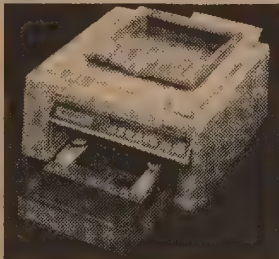
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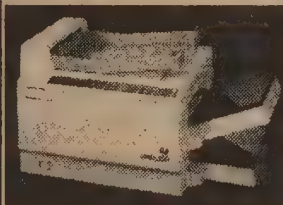
### ACCESSORIES & SUPPLIES FOR 4420

|                   |       |
|-------------------|-------|
| Legal Tray .....  | \$45  |
| Envelope Tray ... | \$69  |
| Toner .....       | \$39  |
| Drum Unit .....   | \$119 |
| Developer .....   | \$89  |

**\$799**

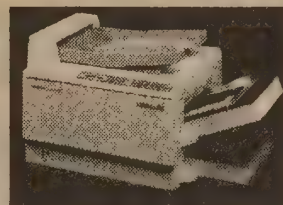
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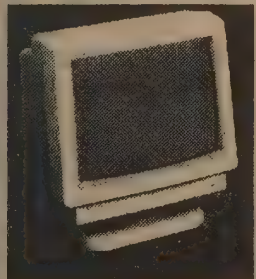
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| Drum Unit .....     | \$149 |
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- 28 internal fonts
- 500 sheets capacity

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## PanaSync



**C1381**

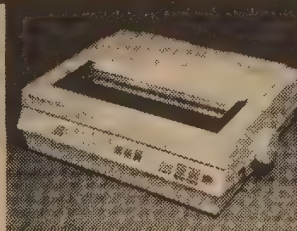
- Multi-Freq Analog
- 1024x768 maximum resolution
- Works w/ IBM Compatibles & MAC II

**14" ANALOG  
MULTI  
FREQUENCY  
COLOR  
MONITOR**

**\$429**

## 24 PIN PRINTER

80 Columns  
192cps Draft 63cps LQ  
5 Built-in LQ Fonts  
2 Year Limited Warranty  
Built-in Tractor Feed



**KX-P1124**

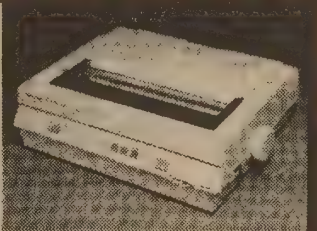
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## GREAT PRINTER VALUE!

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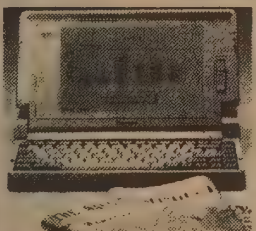
- 192 cps • 38 cps NLQ
- 240x216 dpi resolution
- 80 Column



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## 20MB NOTEBOOK LAPTOP



**CF-170**

CF-170 at 6.1 lbs  
10MHz CMOS V20  
640K RAM Expandable to  
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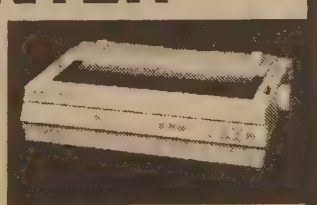


**KX-P1624**

**\$379**

## 9-PIN PRINTER

EZ Set control panel  
330 cps draft  
66 cps NLQ  
8 resident fonts  
16.5" wide carriage and  
Rear, bottom and front  
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**KX-P1695**

**\$395**

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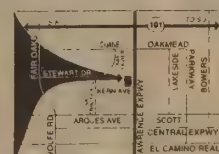
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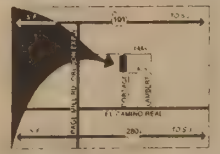
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16MHz 80386SX  
Small Footprint Case  
1MB 70NS RAM  
Up to 14MB at 50 Wait State  
5.25" 1.2MB Floppy Disk  
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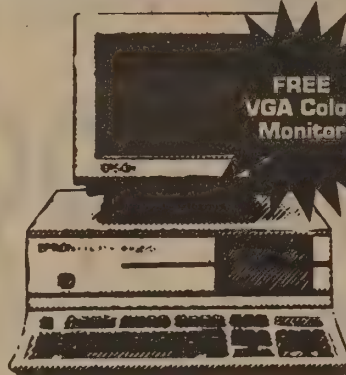


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### EQUITY 386/25

Powerful 25 MHz 80386  
5 1/4" 1.2 MB Floppy Disk  
2 MB RAM Expandable to 16 MB  
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OS/2 Compatible  
One Year Warranty

FREE  
VGA Color  
Monitor



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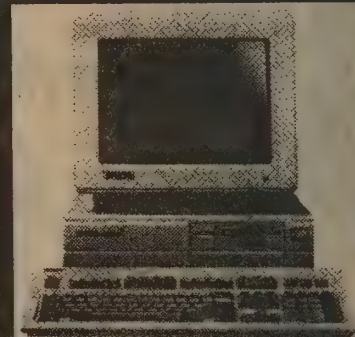
8/10 MHz 8086  
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3.5" 720K Floppy Disk  
Clock/Calendar • MS DOS/GW Basic  
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LIMITED TO  
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Enhanced 101-Key Keyboard  
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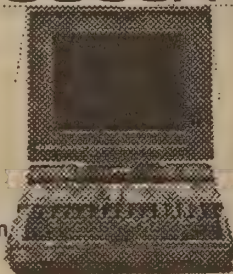


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## Laptops

### EQUITY LT-386SX

16MHz 80386SX • User  
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"VGA Paper White"  
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3.5" 1.44 MB Floppy Disk  
Serial/Parallel Ports  
2MB RAM Expandable to 4 MB  
3-Way Internal Expansion System  
Clock / Calendar  
Weight 17lbs. /13lbs.  
Without Removable Battery Units  
One Year Limited Warranty



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Weight 17lbs. 13lbs. Without  
Removable Battery Units • One Year Limited Warranty



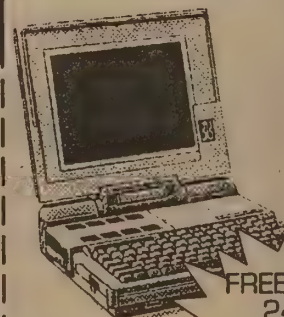
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10MHz NEC 30 CPU  
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FREE! MEGAHERTZ  
2400 BAUD  
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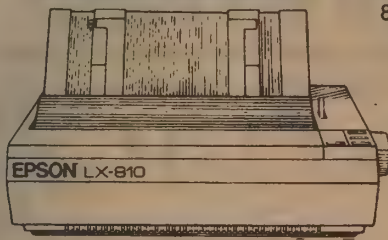
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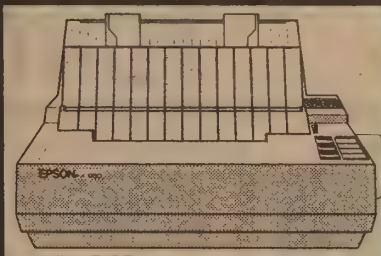


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80 Column • 200 CPS Draft • 30 CPS NLQ  
SmartPark Paper Handling  
SelectType Front Control Panel  
Built-In Tractor Feed

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## 9-PIN WORKHORSE



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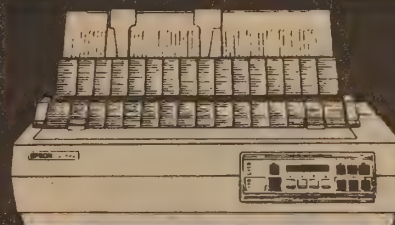
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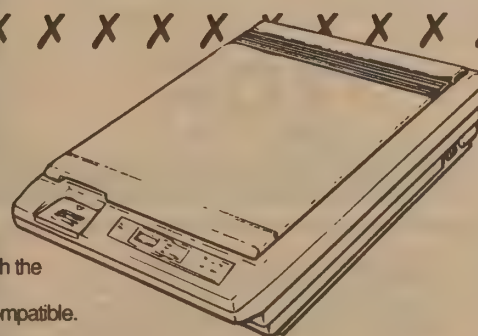
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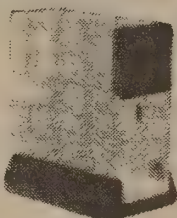
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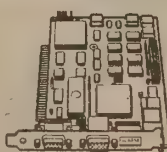
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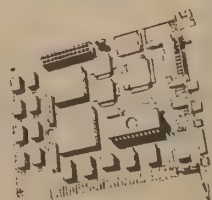
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PC Probe combines advanced diagnostics, system information, utilities, and benchmark testing. It is easy to use but suited for the advanced end user and service technician. It quickly and easily puts you "in the know" and back up-and-running virtually every time a PC gives you a problem.

The pull-down menus are keyboard or mouse driven and the on-screen help is so complete you'll rarely find the need to use the manual. It can also be run remotely, with programs like CoSession, to save time and money.

This powerful diagnostic software has exhaustive tests that run in single pass, multiple pass, or batch mode for isolating intermittent errors. Results are logged to disk file,

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PC Probe has a suite of built-in utilities for fixing common operating problems. You can reformat your hard drive, revitalize hard disk data, list and edit bad track tables, display and edit CMOS RAM, and locate a bad RAM chip. Serial and parallel port loopback plugs are included for complete com port testing. The Landmark System Speed Test is also built in to accurately test the CPU, FPU (math) and Video speeds.

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KickStart 1 is the ideal companion for engineers, technicians, and advanced PC users who want to identify the cause of motherboard and other system failures fast. It helps get a computer into operation quickly by showing what's wrong when the system display doesn't work.

Since many computer failures can cause the screen to be blank it makes software diagnostics ineffective. That's when you need this Power-On Self-Test (POST) card. You simply put KickStart 1 into any slot and switch on the power.

When the power comes on, the CPU executes the POST program built into BIOS in the ROM chips on the main circuit board. The LEDs on KickStart 1 immediately show whether power is applied to the board.

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If the computer hangs up, stops or runs in a loop during the test it is because it detects an error. The last test number sent to port 80 signals the problem that caused the system to hang. Find the number on the BIOS manufacturer's POST code list in the manual and you will know which circuit to repair.

For convenience you may wish to leave KickStart 1 in your computer. The low power circuitry and solid state construction ensure you of long, trouble-free, use. Like all Landmark products, KickStart 1 is manufactured in the U.S.A. and comes with a warranty and technical support.

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## Multifunction Diagnostics Card

KickStart 2 is the most versatile and cost effective multifunction diagnostics card available today. Designed for service technicians, dealers, VAR's and manufacturers, it performs both low level and advanced diagnostics for the motherboard, memory, and peripherals.

KickStart 2 relays low-level POST failure codes via a digital display and advanced diagnostics are performed by an extensive suite of tests in a 512K paged EROM. It also measures your power supply voltage.

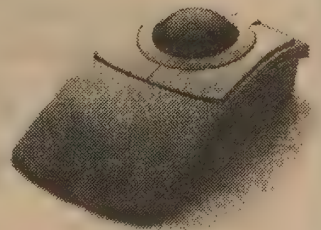
System tests include CPU, math chip, real memory, extended memory, interrupt control, DMA control, clock, timer, and CMOS RAM. Peripherals tests include serial port, parallel port, floppy disk drive, hard disk drive, keyboard, and video (mono, CGA, EGA, VGA). Tests can also be run from a remote terminal. Errors can be logged to either a remote terminal (via on-board serial and parallel I/O), or printer. Includes an 8K CMOS battery-back up RAM for storing configurations and password information, a real-time clock, an Ethernet BNC Terminator, a Serial Cable assembly and Loopback.

plugs (9 pin serial, 25 pin serial, 25 pin parallel) for communication port testing plug Landmark JumpStart™ ROMs to replace motherboard BIOS that doesn't send POST code errors. KickStart 2 works on PC XT, AT, AT/386, AT/486, all compatibles. It comes with a one year warranty, and a liberal software upgrade policy. Custom software is also available.

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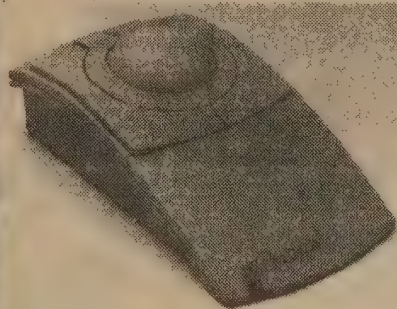
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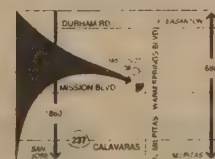
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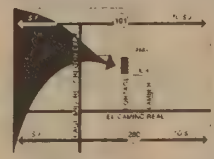
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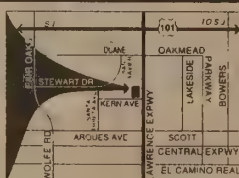
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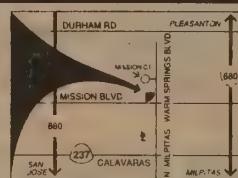
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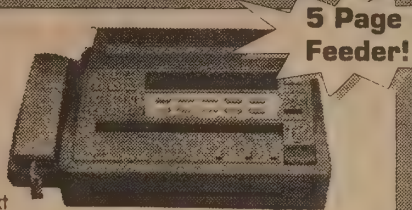




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FO-215

## EPSON

### Priority Fax 3000

Big business needs big features and Epson gives you big features for less money. This unit boasts 28 pages of internal memory in case you run out of paper, and you can also broadcast from memory, 5 page feeder, half-tone transmission and much more!

**\$698**

28 Page Memory!

## TEXAS INSTRUMENTS ULTRA-COMPACT SOLAR CALCULATOR

Carry this credit card size calculator anywhere you go. It performs major mathematical functions.

**\$795**

MODEL TI- 307

## SHARP SCIENTIFIC CALCULATOR

If you're a student, engineer or just need an inexpensive calculator...take a look at this one. This unit has a 10-digit display, an amazing 147 functions and is capable of performing trigonometric statistic, standard deviation and many other functions.

**\$1295**

EL-531D

## TURBO FAX FAX PAPER

98 FOOT ROLLS CARTON OF 6 ROLLS

**\$1299**

Fits Most Fax Machines!

## SHARP ELECTRONIC TELEPHONE/ ADDRESS BOOK

The 90's Solution to a telephone/ address book is here! This unit will store up to 400 names and telephone numbers and just hold it up to a telephone mouth-piece and this unit will dial the number for you!

**\$5995**

EL-6260

# FRY'S ELECTRONICS

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## Panasonic ANSWERING MACHINE

Answering system with Auto-Logic Operation, Tone Remote Control, Digital Display, Message Memo Recording and Remote turn on, Auto-Logic Operation Automatically Rewinds, Plays Messages, Stops at the Last Message and Resets itself at the Touch of One Button.

KXT-1000

**\$3995**

## Panasonic SPEAKERPHONE

For the business edge Panasonic can help you stay on top with these hot features. It has a 28 station Automatic Dialer, Speaker Phone, Automatic Redial, Time Flash Button and much more.

KXT-2315

**\$3995**

## SONY TELEPHONE

From the leader in cordless phone technology comes a new line of feature phones. This unit has a crystal clear speakerphone, 32 number memory and more!

ITD-100

**\$5795**

## SONY DIGITAL ANSWERING MACHINE

This answering machine is selling for less than half of what we sold it for originally. Limited stock

**\$4995**

TAU-10

## Panasonic REPEATERLESS REMOTE COMPACT ANSWERING MACHINE

This fully featured machine, let's you retrieve your messages from any tone phone. Plus, with Panasonic's Auto-Logic operation you can hear your messages with the touch of a button. Other features include auto-interrupt, 12-function tone remote control memory playback and call screening

KXT-1450

**\$59**

## Franklin WORDMASTER

Don't carry a dictionary and a Thesaurus around with you...carry a Wordmaster! This incredible unit can do spelling corrections, has 76,000 definitions, 487,000 synonyms and much more. It even has an alpha numeric display!

**\$6995**

WM-1055

## CASIO B.O.S.S.

Electronic Organizers are very helpful because you can store notes, telephone numbers, schedules, etc. in memory and they are very small! You can have your very own for just...

Interfaces with your IBM or Mac computer!

**\$7995**

SF-4000

## YOUR CONNECTION

|            |                     |          |                     |
|------------|---------------------|----------|---------------------|
| 10B.....   | \$29 <sup>95</sup>  | 20S..... | \$29 <sup>95</sup>  |
| 14B.....   | \$64 <sup>95</sup>  | 21S..... | \$39 <sup>95</sup>  |
| 12C.....   | \$67 <sup>95</sup>  | 22S..... | \$49 <sup>95</sup>  |
| 17BII..... | \$79 <sup>95</sup>  | 32S..... | \$54 <sup>95</sup>  |
| 19BII..... | \$129 <sup>95</sup> | 27S..... | \$64 <sup>95</sup>  |
|            |                     | 42S..... | \$89 <sup>95</sup>  |
|            |                     | 28S..... | \$179 <sup>95</sup> |

**HP Infrared  
Printer \$109<sup>95</sup>**

HP Infrared Printer \$109<sup>95</sup>

## 48SX HOT EXPANDABLE SCIENTIFIC

**\$279**

IBM or MAC Link for 48SX \$59<sup>95</sup>  
Your Choice!





## NUSCAN GRAYSCALE SCANNER

NuScan PC Grayscale Scanner, from Asuka Technologies, is a hand-held scanner designed for desktop publishing and other imaging/graphics applications on IBM PC and compatibles. This scanner renders 256 shades of gray and features OCR capabilities for text inputting. The bundled OCR program, Perceive Automatic, supports all commonly used fonts, typefaces and character sizes for eight to thirty-six points. Asuka's scanner is ergonomically designed and constructed for both right and left hand users. A 40" cable is included for easy scanning from various positions. (\$399) Asuka Technologies, Inc., Von Karman Commerce Center, Suite 110, 17145 Von Karman Ave., Irvine, CA 92714. (714)757-1212.

# PRINTING SCANNING

## Q-SCRIPT FOR POSTSCRIPT

The Q-Script laser printer controller, from Bell & Howell Quintar, combines full PostScript-language compatibility and high-speed background mode operation, and is the first to allow printing while concurrently process-

## SPECTRA\*STAR FAMILY OF COLOR PRINTERS

General Parametrics' Spectra\*Star 400 series of PostScript-compatible color printers uses the latest thermal wax transfer technology to offer 300 dpi resolution. These printers provide a slide making option, an internal hard disk and satellite printing. The Spectra\*Star produces crisp and clear overhead transparencies, handouts, CAD prints, and pre-press proofs in brilliant colors. Satellite printing enables an image sent to one Spectra\*Star printer to be simultaneously produced on up to eight connected printers. Spectra\*Star 400 series has been designed with connectivity in mind. It provides serial, parallel, and (in Model 430) AppleTalk ports, as well as a special port used for satellite printing with other Spectra\*Star printers. (Prices range from \$5995 to \$14995) General Parametrics Corp., 1250 Ninth St., Berkeley, CA 94710 (415)524-3950.



ing PostScript-language files. Q-Script converts HP, Canon, Brother, Toshiba and Ricoh laser printers into PostScript-language devices. It performs high-speed PostScript-language processing in background mode, transparently emulates native printer operation while accelerating performance, and offers software upgrades for easy product migration in the future. Q-Script consists of a PC add-in controller board, printer board, video cable, software, and typefaces. Q-Script uses the PhoenixPage PostScript-compatible interpreter, which, unlike most non-Adobe PostScript-language products, is fully compatible with standard PostScript PDL version 7. (\$1995) Bell & Howell Quintar Co., 370 Amapola Ave., Suite 106, Torrance, CA 90501. (213)320-5700.



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# Technoland

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## Chaplet LAPTOP LA-30A

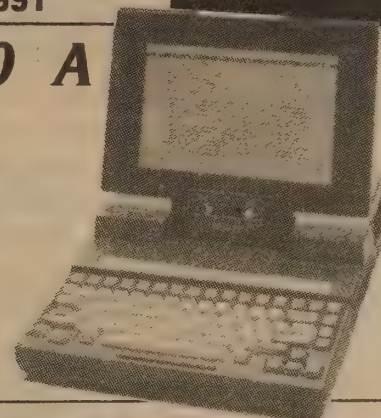
- ◆ 80286-12 CPU
- ◆ 1 MB Exp To 5 MB
- ◆ 2 Standard Slots (1-8, 1-16)
- ◆ LCD 640x480 Back-Lit 11" Screen
- ◆ 1.44 MB, 3 1/2" Floppy Drive
- ◆ 20 or 40 MB Hard Drive
- ◆ 2 Serial, 1 Parallel Ports
- ◆ External Display Connector
- ◆ Battery Back-Up
- ◆ 14.8 lbs.

**\$1549**

20 MB

**\$1699**

40 MB



## 8088-10 COMPLETE



- ◆ 10 MHz
- ◆ 640K RAM
- ◆ 360K Floppy Drive
- ◆ Case/Power Supply
- ◆ Controller Card
- ◆ Keyboard
- ◆ Mono Monitor

**\$349**

## 286-12 SYSTEM

- ◆ 12 MHz, 0 Wait
- ◆ 512K RAM
- ◆ 1.2 Floppy Drive
- ◆ Case & Power Supply
- ◆ IDE Controller
- ◆ 101 Keyboard

**\$319**

★ Monitor Extra

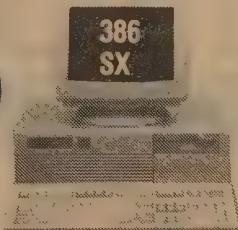


## 386SX SYSTEM

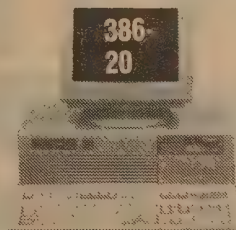
- ◆ 80386 16 MHz
- ◆ 512K Exp To 4 MB
- ◆ 1.2 MB Floppy Drive
- ◆ Case and Power Supply
- ◆ HDD/FDD Controller
- ◆ Parallel/Serial Ports
- ◆ 101 Keyboard

**\$679**

★ Monitor Extra



## 386-20 SYSTEM

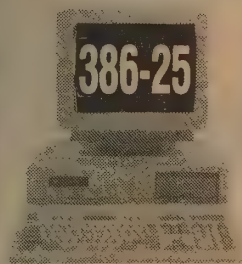


- ◆ 80386 20 MHz
- ◆ 1 MB Exp To 8 MB
- ◆ 2.3 MB Floppy
- ◆ Case & Power Supply
- ◆ HDD/FDD Controller
- ◆ Parallel/Serial Ports
- ◆ 101 Keyboard

**\$799**

★ Monitor Extra

## 386-25 SYSTEM



- ◆ 80386 25 MHz
- ◆ 1 MB Exp To 8 MB
- ◆ 1.2 MB Floppy Drive
- ◆ Case & Power Supply
- ◆ HDD/FDD Controller
- ◆ Parallel/Serial Ports
- ◆ 101 Keyboard

**\$999**

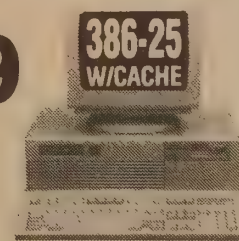
★ Monitor Extra

## 386-25 SYSTEM w/64K Cache

- ◆ 80386 25 MHz
- ◆ 1 MB Exp To 8 MB
- ◆ 64K Cache
- ◆ 1.2 MB Floppy Drive
- ◆ Case & Power Supply
- ◆ HDD/FDD Controller
- ◆ Parallel/Serial Ports
- ◆ 101 Keyboard

**\$1199**

★ Monitor Extra

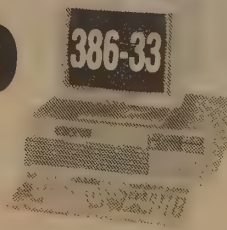


## 386-33 SYSTEM w/64K Cache

- ◆ 80386 33 MHz
- ◆ Cache Built-In
- ◆ 1 MB Exp To 8 MB
- ◆ 1.2 Floppy Drive
- ◆ Case & Power Supply
- ◆ Parallel/Serial Port
- ◆ HDD/FDD Controller
- ◆ 101 Keyboard

**\$1399**

★ Monitor Extra



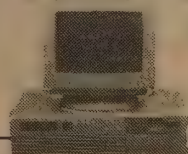
## 486 SYSTEM



- ◆ Landmark=115
- ◆ 1 MB Exp To 8 MB
- ◆ 1.2 Floppy Drive
- ◆ Case/Power Supply
- ◆ HDD/FDD Controller
- ◆ Parallel/Serial Ports
- ◆ 101 Keyboard

**\$2249**

★ Monitor Extra



### MONITOR FOR ABOVE SYSTEMS

- ◆ Mono Monitor with Card .....\$99
- ◆ VGA Monitor With Card. ....\$395 up



### MEMORY EXPANSION UP TO 4 MB

IIIP or III 2 MB ..\$179 4 MB ..\$249

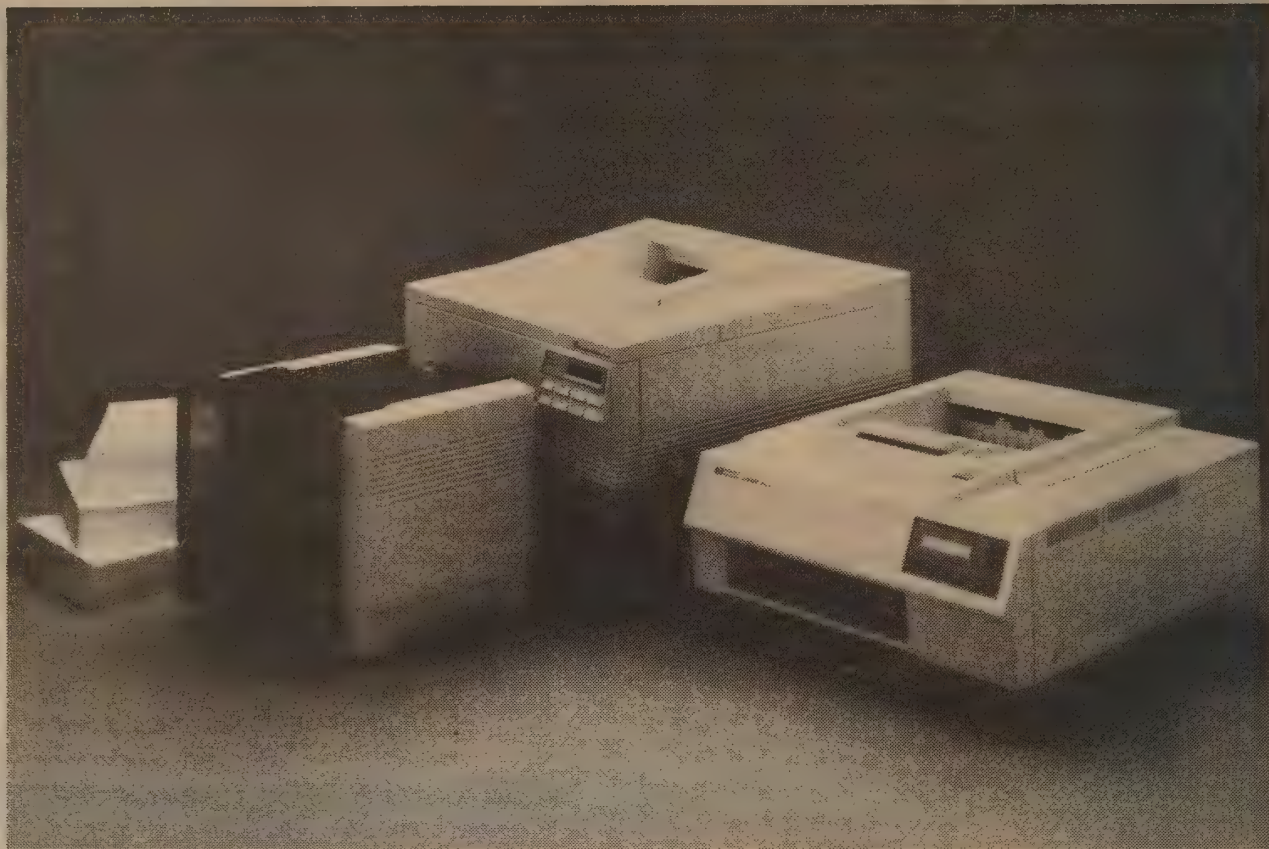
## HARD DRIVE SPECIALS

|                                                        |       |
|--------------------------------------------------------|-------|
| Western Digital IDE 40 MB Controller Built-In .....    | \$269 |
| Imprimus SCSI 91 MB With Controller .....              | 565   |
| Conner Peripheral IDE 100 MB Controller Built-In ..... | 545   |
| Conner Peripheral IDE 200 MB Controller Built-in ..... | 899   |



## MORE PAPER FROM GENESIS

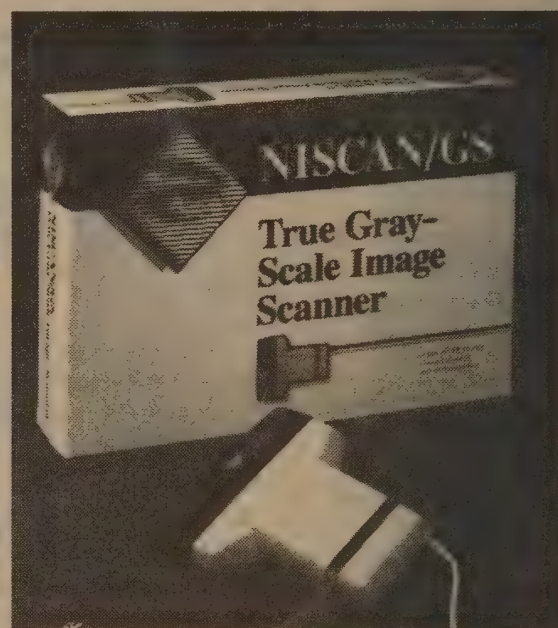
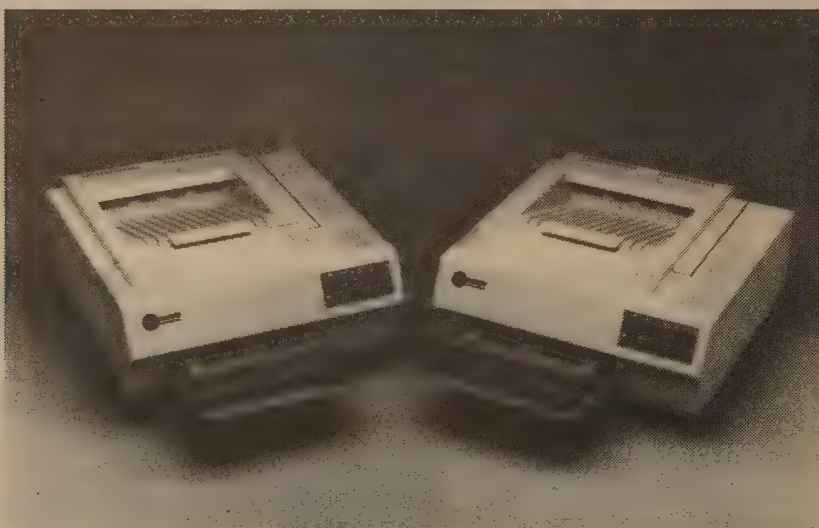
Genesis Technology, a leading manufacturer of paper handling products, has introduced a new line of low-cost, large capacity paper trays designed to easily adapt to a variety of non-impact laser printers. The JetTray 1500 Series, with a 1500 sheet capacity, addresses office needs by minimizing the requirement for frequent paper replenishment and unnecessary printer downtime. The LCS-15-SX3 works with most Canon SX-based laser printers, including HP LaserJet Series II, Series IID and III printers, the Apple LaserWriter II series, and similar Cannon SX-based printers. (\$495) Genesis Technology, Inc., 30963 San Benito Ct., Hayward, CA 94544. (415)489-3700.



# PRINTING SCANNING

## HIGH-RES GEMS FROM NEWGEN

NewGen Systems offers a series of 300 and 400 dpi printers including the Turbo/PS 360 and Turbo/PS 480, with upgrade kit options bringing printer resolutions to 600 and 800 dpi. In particular, the Turbo/PS 480 features user selectable 800 x 400 or 400 x 400 dpi resolution. These PostScript-compatible printers are ideal for DTP, business presentations, forms and CAD/CAE. (Turbo/PS 480, \$7495; Turbo/PS 300, \$4495) NewGen Systems Corp., 17580 Newhope St., Fountain Valley, CA 92708. (714)641-8600.



## GRAYSCALE IN THE PALM OF YOUR HAND

After providing optical, mechanical, and electronic imaging technology for the Fujitsu, Toshiba, Hitachi, Canon and other manufacturers, Niscan has introduced a true grayscale hand-held scanner. This scanner is ideal for newsletters, brochures, letterheads, and slide presentations. Niscan/GS allows on-screen brightness and contrast adjustments after scanning. Grayscale images can be scaled to almost any size without creating moire patterns. Niscan/GS is compatible with most desktop publishing, word processing, business graphics and paint programs. (\$369) Niscan, Inc., 1919 Old Denton Rd., Suite 104, Carrollton, TX 75006. 1-800-245-SCAN.



# DTK COMPUTER SYSTEMS CHRISTMAS SALE

**486-33**

LM = 150.2

**\$2999**

**386-33**

w/64K CACHE

LM = 54

**\$1099**

**386-25**

w/64K CACHE

**\$899**

**386-25**

LM = 34

**\$799**

**386-20**

LM = 24

**\$699**

**386SX-16**

LM = 21

**\$579**

**286-12**

LM = 16

**\$349**

**XT TURBO-10**

LM = 12

**\$249**

512K RAM, 360K, FD, Case w/PS,  
101 Keyboard

## ALL BASIC SYSTEMS INCLUDE:

- 1 MB On Board • 1.2 or 1.44 MB Floppy Disk • Hard/Floppy Controller • Hi-Quality Slide Case
- 230W Power Supply • 1S/1P/1G Ports and 101 Keyboard

**microtel**

**486-33 MOTHERBOARDS**

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**FOR DEALER SPECIALS**

## MONTHLY SPECIALS

**SUPER VGA**

**1024x768**

**MONITOR**

w/16 BIT  
512K SVGA CARD **\$420**

**286-12**

**LAPTOP**

w/40 MB HD

1 MB RAM

**\$1500**



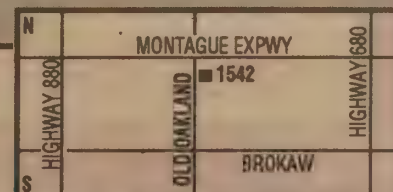
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# MICROLINK SYSTEM

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SEASON'S SPECIAL!

## *free* MICROSOFT WINDOWS 3.0 & MICROSOFT MOUSE MLS 386-33Mhz Cache System Bundle

Maximum LandMark Speed = 59Mhz\*

### Standard Configurations:

- Intel 33Mhz CPU & AMI BIOS
- 64k Cache
- 4MB RAM Upgradable to 16MB on Board
- 104 MB Conner IDE Hard Disk (25ms)
- Dual TEAC Floppy Drives 5.25" (1.2) & 3.50" (1.44)
- 16 Bit VGA Card w/512k
- Super VGA Monitor (1024x768 .28mm)
- IDE FD/HD Controller, AT I/O (2S/1P/1G)
- 80387 Coprocessor Socket
- 1x8, 7x16, Slots
- Focus 2001 Enhanced Click KeyBoard (w/Cover)
- Tower Case w/Power Supply
- MicroSoft Windows 3.0 and Microsoft Mouse

**\$2495**

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(San Francisco)

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Technical Hot Line

**1-800-748-6324**

## FAMILY OF *i*486

33MHZ/EISA 486 128K CACHE ..... **\$4200**

33MHZ/AISA 486 128K CACHE ..... **\$3100**

25MHZ/AISA 486 128K CACHE ..... **\$2500**

### Standard Configuration:

- 4MB RAM Exp to 16MB
- Dual TEAC Floppy Drive (1.2MB & 1.4MB)
- Ultrastor ESDI Controller w/32k Cache
- 2S/2P Ports
- Full Tower Case w/230W. Power Supply
- Focus 5001 KeyBoard (131 keys)
- (2Sets of FKs, Calculator, 8 dir Arrow keys)



### VIDEO CARD OPTIONS:

|                                        |       |
|----------------------------------------|-------|
| TVGA WYSE W/1MB .....                  | \$185 |
| Orchid ProDesigner II .....            | \$295 |
| Heroules Graaghtics Station Card ..... | Call  |

### DISPLAY OPTIONS:

|                                        |        |
|----------------------------------------|--------|
| AMAZING 61428 SVGA W/Text Switch ..... | \$345  |
| SEIKO 1440 14" Interlaced .....        | \$525  |
| SONY 1304 14" Non Interlaced .....     | \$669  |
| NANAO 9070u 16" Non Interlaced .....   | \$1075 |
| NEC 4D 16" Non Interlaced .....        | \$1195 |

### HARD DISK OPTION:

|                               |        |
|-------------------------------|--------|
| 676MB MAXTOR 8760E 16ms ..... | \$2395 |
| 338MB MAXTOR 4380E 16ms ..... | \$1395 |
| 158MB MAXTOR 4170E 14ms ..... | \$995  |
| 170MB MAGTRON 18ms .....      | \$795  |
| 140MB MAGTRON 18ms .....      | \$695  |
| 110MB MAGTRON 16ms .....      | \$595  |

(Two Years Warranty on Magtron Hard Disk)

**FREE DELIVERY AND SETUP WITH 486 PURCHASED**

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# 2 Years on Motherboard 1 Years on the Other Parts

## 386-25MHz w/64k CACHE 40MB & DUAL FLOPPY

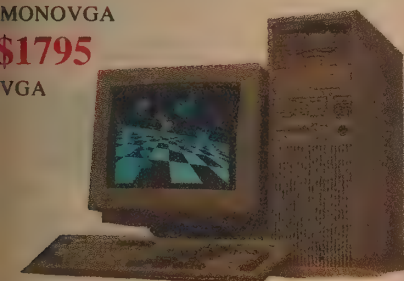
LANDMARK=43MHz

- 1MB RAM Exp to 16MB
- 40MB Hard Disk 25ms
- 1.2MB TEAC Floppy Drive
- 1.44MB TEAC Floppy Drive
- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP or 16 Bit VGA Card 1024x768
- 2 S/I P/IG
- 200 W Power Supply
- Middle Tower Case
- Focus 2001 Enhanced Click Keyboard

**\$1485** 66MB(NEC).....+\$105  
MONO 104MB Conner .+\$275

**\$1615**  
MONOVGA

**\$1795**  
VGA



## 386-25MHz 40MB & DUAL FLOPPY

LANDMARK=34MHz

- 1MB RAM Exp to 16MB
- 40MB Hard Disk 25ms
- 1.2MB TEAC Floppy Disk
- 1.44MB TEAC Floppy Drive
- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP or 16 Bit VGA Card 1024x768
- 2 S/I P/IG
- 200 W Power Supply
- Baby AT Case or Mini Upright
- Focus 2001 Enhanced Click Keyboard

**\$1375** 66MB(NEC).....+\$105  
MONO 104MB Conner .+\$275

**\$1495**  
MONOVGA

**\$1675**  
VGA



## 386SX-16MHz 40MB & DUAL FLOPPY

LANDMARK=21MHz

- 1MB RAM Exp to 8MB
- 40MB Hard Disk 25ms
- 1.2 MB TEAC Floppy Drive
- 1.44MB TEAC Floppy Drive
- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP or 16 Bit VGA Card 1024x768
- 2 S/I P/IG
- 200 W Power Supply
- Baby AT Case or Mini Upright
- Focus 2001 Enhanced Click Keyboard

**\$1135** 66MB(NEC).....+\$105  
MONO 104MB Conner .+\$275

**\$1225**  
MONOVGA

**\$1415**  
VGA



## 286-12MHz w/40MB

LANDMARK=15.6MHz

- 1MB RAM Exp to 4MB
- 40MB Hard Disk 25ms
- 12MB or 1.44MB TEAC Floppy Drive
- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP or 16 Bit VGA Card 1024x768
- 2 S/I P/IG
- 200 W Power Supply
- Baby AT Case or Mini Upright
- 101 Keys Enhanced Keyboard

**\$795** 66MB(NEC).....+\$105  
MONO 104MB Conner .+\$275

**\$1095**  
VGA

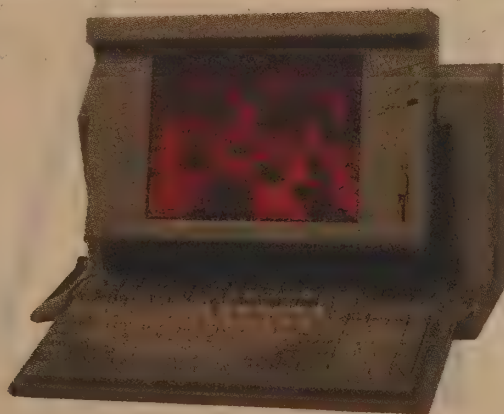


## Free Logitech DEXXA Mouse

## 486/VGA plus GAS PLASMA PORTABLE

- 25MHz INTEL CPU
- 128k Cache
- 4MB RAM Exp to 16MB
- 104MB Conner Hard Disk
- Dual TEAC Floppy (1.2MB & 1.4MB)
- IDE Controller
- 2S/1P Ports
- Contrast Ratio 150:1
- 256 Color Simulation
- Carrying Bag Included
- 110/220 V Auto Switch

**\$3995**



## PLASMA PORTABLE w/40MB HARD DISK

286-12MHz .....**\$1560**  
386SX .....**\$1795**  
386-25MHz .....**\$2150**  
386-25MHz CACHE**\$2250**

Optional EGA .....\$249  
Optional VGA .....\$349  
(640x480 Pixel Graphic Display, 800x600 Pixel  
Graphic On Ext VGA or Multisync)

- 640x400 Resolution
- 1MB RAM
- 1.44MB TEAC Floppy Drive
- 1.2MB TEAC Floppy Drive
- 40 MB Hard Disk 25ms
- Hard/Floppy Controller
- 2 S/I P Ports
- Ext Monitor Connector
- Contrast Ratio 12:1
- Carrying Bag Included

30 DAYS TRIAL PERIOD TO GUARANTEE THE COMPATIBILITY



# NEW PRODUCT BUYERS GUIDE

## MIGRAPH COLOR HAND SCANNER

The Migraph Color Hand Scanner captures up to 400dpi with an array of 4096 colors offering every user professional-quality color graphics quickly and easily. This scanner provides the four features desired by desktop users: power, speed, ease of use, and affordability. It can scan line art, grayscales and color images. While scanning, the users can quickly check dpi settings on an easy-to-read LED display, and every scan can be

fine-tuned by adjusting controls for brightness,

contrast, hue, and gamma correction of

colors.(\$795) Migraph, Inc., 200 S. 333rd

St., Suite 220, Federal Way,

WA 98003. 1-800-223-3729.



# PRINTING SCANNING

### Systems

|                      |        |
|----------------------|--------|
| 8088-10 .....        | \$269  |
| 80286-12 .....       | \$339  |
| 80286-16 .....       | \$405  |
| 80386SX .....        | \$601  |
| 80386-20 .....       | \$799  |
| 80386-25 .....       | \$859  |
| 80386-25 w/64K Cache | \$995  |
| 80386-33 w/64K Cache | \$1189 |
| 80486-25 .....       | \$2489 |

### Hard Drive:

With system purchase

|                          |       |
|--------------------------|-------|
| 40Mb/28ms .....          | \$245 |
| 66Mb/28ms w/RLL card ... | \$360 |
| 80mb/25ms .....          | \$450 |
| 100Mb/18ms .....         | \$525 |
| 150mb/18ms .....         | \$890 |
| 200mb/19ms .....         | \$825 |

Without

|                             |        |
|-----------------------------|--------|
| Western Digital 40Mb        |        |
| 28ms IDE .....              | \$259  |
| ST-225 21mb 65MS            |        |
| .....                       | \$184  |
| ST-251-1 40mb .....         | \$249  |
| TOSHIBA 134FA 66Mb RLL..... | \$299  |
| Conner cp3184 80Mb.....     | \$499  |
| Conner cp3104 100Mb.....    | \$549  |
| Conner cp3204 200Mb.....    | \$829  |
| NEC 3142 60mb .....         | \$311  |
| MAXTOR 170MB .....          | \$899  |
| MAXTOR 4380E 338Mb .....    | \$1349 |
| MAXTOR 660Mb .....          | \$1785 |

To Jim Time \_\_\_\_\_

Date \_\_\_\_\_

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*2. On-Site Service is available.*

Price, Quality, Service

### Video Options:

|                            |       |
|----------------------------|-------|
| 12" Mono + MGP .....       | \$87  |
| VGA + VGA 640 * 480 .....  | \$326 |
| VGA + VGA 800 * 600 .....  | \$389 |
| Super VGA 1024 * 768 ..... | \$457 |

### Monitor:

|                                    |       |
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| NEC 3D .....                       | \$610 |
| 3Lynx 1024 * 768 .....             | \$350 |
| Power II 1024 * 768 .....          | \$355 |
| Relisys 9513 .....                 | \$335 |
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| Selko VGA -1440 .....              | \$585 |

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POINT Computer

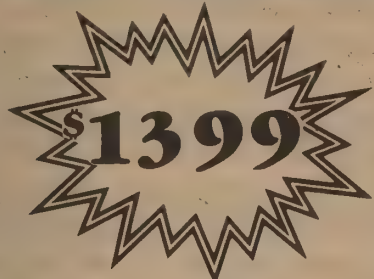
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- 16 MHz Landmark
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ALL FOR **\$375**

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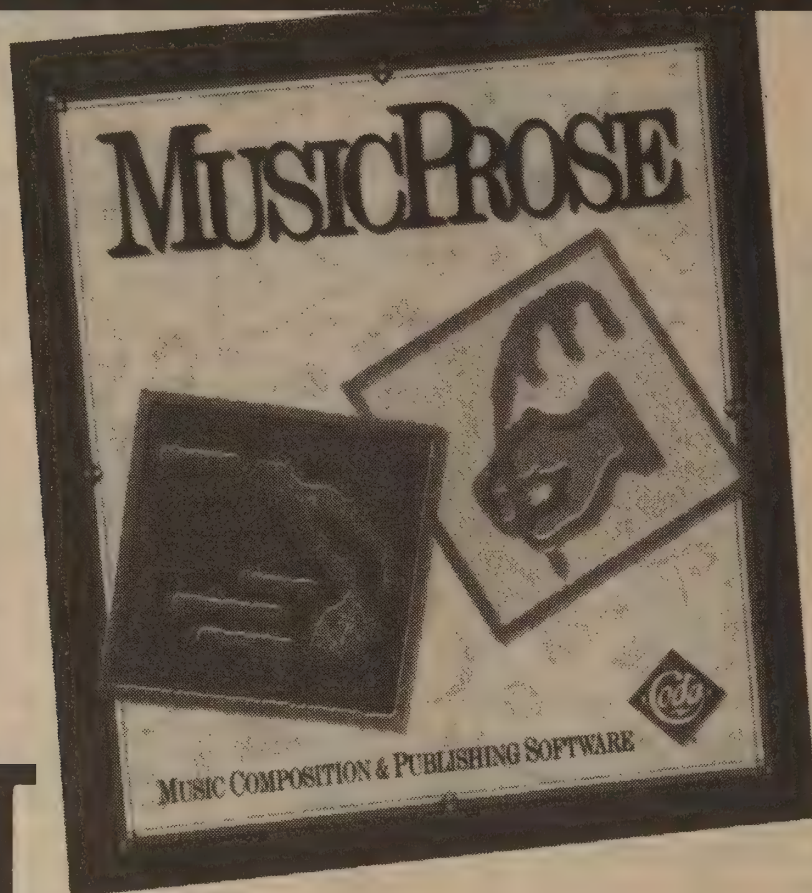
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## CODA MUSICPROSE

Coda Music Software has released a major upgrade for its Musicprose music notation software that will feature an expansion to thirty-two staves, a utility for extraction of parts into separate files for layout and printing, an enhanced undo/redo function and a scrolling playback option that allows the user to see notated music as it plays. Version 2.0 will include Apple Computer's MIDI Manager application, a software toolkit that lets the user link MIDI programs together. Music prose allows the user to transcribe standard MIDI files into notation, write MIDI files from Musicprose for use with sequencing programs, quickly change key, meter and clef, and analyze block chords for accurate chord symbol labeling. (\$399) Coda Music Software, 1401 E. 79th St., Bloomington, MN 55425. (612)854-1288.

# MULTIMEDIA

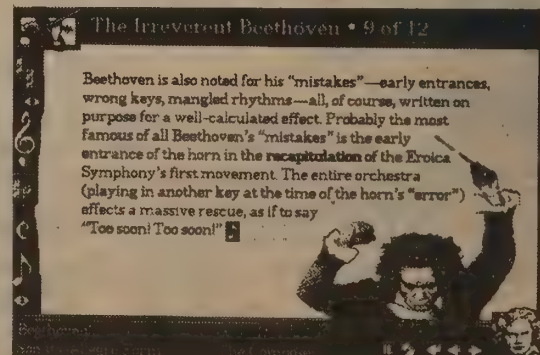
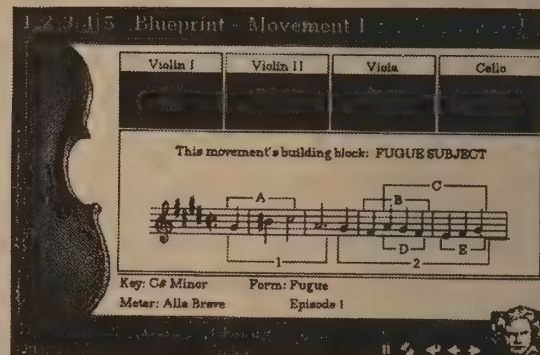
## AUTODESK ANIMATION

### FOR THE PC

Autodesk, Inc., has entered the desktop video market with a new animation and paint program for PC users. Autodesk Animator provides PC users with a tool for developing animated presentations for sales, marketing, training and industrial video applications. Autodesk Animator features include: five types of professional animation techniques, image processing, 572 true-color paint effects, an intuitive mouse interface and hardware connection to video-in/video-out capability, and others. It also includes a videotape of sample animations and a public domain projector/player software utility that allows users to distribute presentations. (\$395) Autodesk, Inc., 2320 Marinship Way, Sausalito, CA 94965. 1-800-525-2763.

## BEETHOVEN LIVES IN ROM

The String Quartet, a new CD-ROM musical presentation package, combines entertainment, education and music appreciation in a richly illustrated and annotated user-directed journey through Beethoven's String Quartet No. 14. Using Beethoven's String Quartet No. 14 as a foundation, Warner New Media takes advantage of CD-ROM and HyperCard capabilities to create a comprehensive presentation of the piece and the entire subject of chamber music. Using a Macintosh computer with a CD-ROM drive and speakers, the user can explore the complete quartet, enhanced by thousands of pictures, commentaries, additional music, analysis, historical information, musical glossary and index. (\$66) Warner New Media, 3500 Olive Ave., Burbank, CA 91505. (818)955-6499.



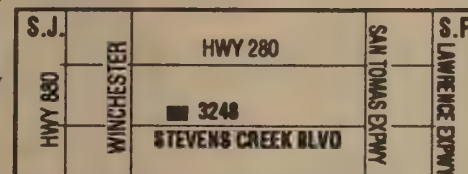




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**\$699** **386SX-20 MHz**  
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| 386-25 MHz 64K CACHE NO CPU | .339   |
| 386-25 MHz NO CPU (C&T)     | .289   |
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| 386SX-16 MHz (C&T)          | .345   |
| 286-20 MHz (C&T)            | .259   |
| 286-16 MHz (C&T)            | .189   |
| 286-12 MHz VLSI             | .109   |

### MONITORS

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|-------------------------------------------------|--------|
| WIN MONO 12" AMBER                              | \$72   |
| WIN MONO 14" AMBER/WHITE                        | .96/99 |
| RELISYS MONO VGA 9503                           | .140   |
| RELISYS EGA MONITOR 5154                        | .325   |
| RELISYS VGA MONITOR 9513                        | .330   |
| RELISYS MULTISCAN 5155                          | .415   |
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| 3 LYNX SUPER VGA 1024x768 .28DP                 | .339   |
| POWER II SUPER VGA 1024x768 .28DP               | .349   |
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| VIEWSONIC 4 (1024x768 .29DP)                    | .389   |
| PANASONIC C1381 (1024x768x.29)                  | .425   |
| SEIKO 1440 (1024x768 .25DP)                     | .489   |
| SEIKO 1450 (1024x768 .25DP) NON-INTERLACED      | .645   |
| NEC 3 D MULTISCAN                               | .595   |
| SONY 1304 HG MULTISCAN (NON-INTERLACED)         | .669   |

### HARD DRIVES

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|--------------------------|------------|
| ST125/225                | .209/185   |
| ST138/238R               | .229/209   |
| ST277R-1/277N-1          | .299/349   |
| ST151/251-1              | .315/249   |
| ST4096                   | .519       |
| ST157 IDE                | .249       |
| WD95044 40 MB IDE W/KIT  | .269       |
| TEAC FAST 40 MB IDE 24MS | .279       |
| QUANTUM 80 MB IDE 19MS   | .489       |
| CONNER CP-3044 40 MB IDE | .329       |
| NEC 3142 44/65 MB        | .319       |
| CONNER 100/200 MB        | BEST PRICE |

### KEYBOARDS

|                    |     |
|--------------------|-----|
| LITE ON 101        | .32 |
| MITSUMI 101        | .36 |
| MAXI ENHANCED 101  | .46 |
| MONTEREY 101 CLICK | .45 |
| KEYTRONICS 101     | .44 |
| HONEYWELL 101      | .44 |
| 5001 FOCUS W/CAL   | .89 |

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| MONOCHROME                              | \$22     |
| MONO/COLOR                              | .35      |
| SUPER EGA                               | .65      |
| OAK VGA 800x600                         | .75      |
| PARADISE OEM SUPER VGA 1024x768         | .92      |
| TRIDENT SUPER VGA 1024x768              | .96      |
| TRIDENT 1 MB VIDEO CARD WINDOWS 3.0 DR. | .179     |
| ORCHID PRO DESIGNER II 512K/1 MB        | .219/259 |

### FLOPPY DRIVES

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|-----------------|---------|
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| TEAC 1.2/1.44   | .68/69  |
| FUJITSU 360/1.2 | .58/68  |

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| WD 1006MM2/SR2        | .89/109 |
| WD 1007 SE2 ESDI      | .172    |
| DTC 7280/7287         | .79/92  |
| DTC 6280 ESDI 1:1     | .152    |
| 1:1 MFM/RLL           | .68/79  |
| AT I/O (2S/1P/1G)     | .22     |
| 1.44 FD CONT FOR XT   | .30     |
| RS232 SERIAL CARD     | .18     |
| PARALLEL PRINTER CARD | .15     |
| DUAL GAME I/O CARD    | .14     |
| XT I/O PLUS           | .32     |
| XT MULTI I/O          | .34     |

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| KX-P1191        | .229  |
| KX-P1124        | .279  |
| KX-P1624        | .359  |
| KX-P1524        | .369  |
| KX-P1695        | .CALL |
| KX-P4420 LASER  | .819  |
| KX-P4450i LASER | .1229 |
| KX-P4455 LASER  | .2095 |

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| 3 BUTTON WITH DR. HALO SOFTWARE | \$36   |
| LOGITECH C-9/BUS                | .66/74 |
| LOGITECH TRACKMAN               | .83    |
| LOGITECH WITH WINDOWS 3.0       | .137   |
| LOGITECH SCANMAN                | .169   |

### CPU, MATH-CO, MEMORY DIP/SIMM/SIPP

|            |                              |
|------------|------------------------------|
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| 80387-25 O | .1MX1 ALL SPEED              |
| 80387-33 W | .256X9 (SIMM,SIPP) ALL SPEED |
| 80386-20 E | .1MX9 (SIMM,SIPP) ALL SPEED  |
| 80386-25 S | .CALL                        |
| 80386-33 T | .CALL                        |
| 80486-25   | .CALL                        |

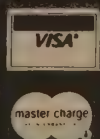
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#### 100% INTEL COMPATIBLE

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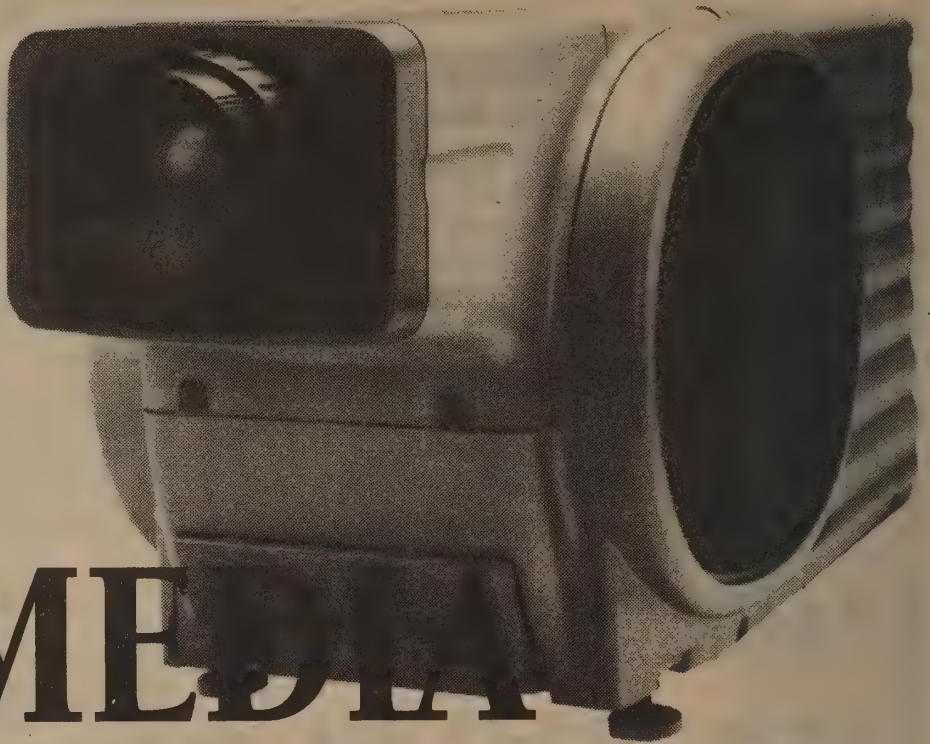


# NEW PRODUCT BUYERS GUIDE

## SHARP PROJECTS YOUR BEST IMAGE

Sharp Electronics Corp. has introduced a portable solid-state LCD color video projection system, the XG-100, designed for business and educational presentations. The XG-1000 accepts both standard composite and S-VHS video sources, including personal computers. When used with an RGB-to-Video computer interface or graphics card, the XG-100 can be used on an IBM PC or MAC II to project full-color multimedia computer/video graphics. Sharp has worked closely with multimedia vendors to support a wide variety of hardware and software applications, including Autodesk Animator. Sharp

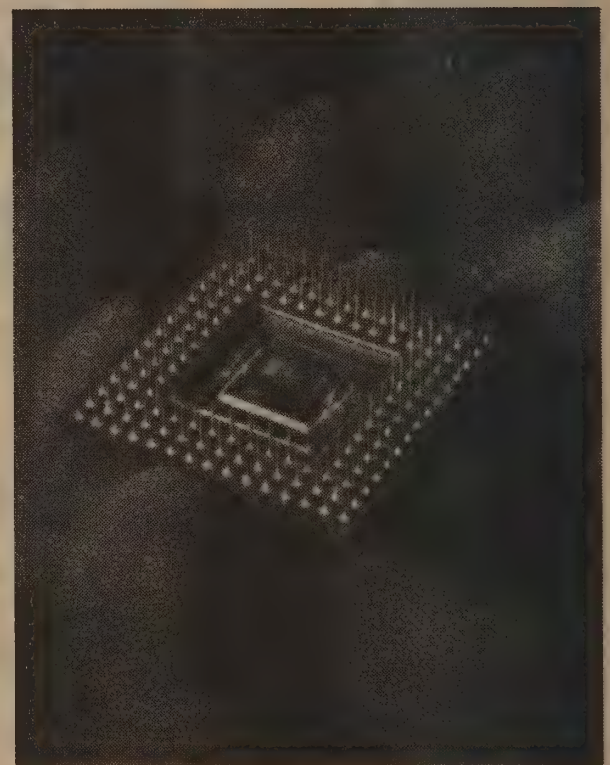
Electronics Corp., Professional Products Division, Sharp Plaza, Mahwah, NJ 07430. (201)529-8731.



# MULTIMEDIA

## MUSIC AND THE MEDIA

Digidesign presents a complete audio production system for the Macintosh computer. Whether you're a musician or multimedia producer, these tools will let you produce, record, edit and play back professional quality audio directly from your Mac. The system starts with the Audiomedia digital recording and editing system. Comprised of a Mac II NuBus card and Audiomedia software, it allows you to record CD-quality stereo sound directly to your hard disk and then play back at 16-bit fidelity. The Audiomedia card leaves Macintosh CPU free to run animation and other graphics. Digidesign's DECK product expands Audiomedia into a four track digital recording system. DECK has unlimited overdubbing and track bouncing, digital effects, automated mixing, and MIDI playback. An additional component of the Digidesign audio system is Clip Tunes, a CD-ROM full of production music and sound effects ready to play with an Audiomedia system. Digidesign, Inc., 1360 Willow Rd., Suite 101, Menlo Park, CA 94025. (415)688-0600.



## WEITEK COPROCESSORS FOR AUTODESK 3D STUDIO

Autodesk 3D Studio runs twice as fast with Weitek's 3167 and 4167 math coprocessors than it does with other coprocessor alternatives. The Weitek 3167 and 4167 enable the 3D Studio graphics operations to approach real time by doubling the speed of the large number of math calculations that high-quality 3D rendering applications require. Weitek Corp., 1060 E. Arques Ave., Sunnyvale, CA 94086. (408)728-8400.



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Bernie Zilbergeld, Computer Currents

**33 MHZ WITH CACHE, 100MB CONNER HD, 4MB RAM  
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TAPE BACK-UP**

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Colorado Memory Systems 100MB tape back-up system makes protecting your valuable data easy

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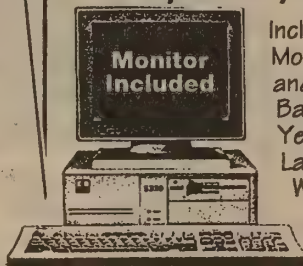
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#### PANASONIC-XT COMPLETE WITH MONITOR

This complete computer system has everything you need to get started for a super low price.

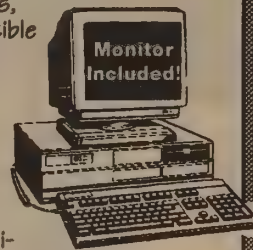


Includes, Monitor, DOS, and 640k RAM. Backed by a 1 Year Parts and Labor Warranty.

**COMPLETE SYSTEM Panasonic**  
\$499 \$25/Month

#### DTK 286 COMPUTER COMPLETE WITH 40 MB HARD DRIVE AND MONITOR

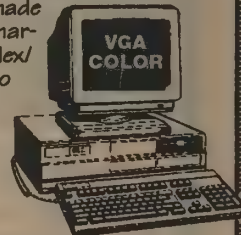
From one of the world's largest computer makers, this IBM compatible comes complete with serial and parallel ports, 1.2MB floppy drive, 1 MB RAM, 40 mb hard drive, MS-DOS, Hi-res monitor. Includes 1 year warranty.



**COMPLETE SYSTEM READY TO GO**  
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One of the best made computers on the market. It's has a Mylex/USA motherboard so it's dependable, and very fast, plus it comes with a great keyboard, and a superbly crafted "accu-fit" case.



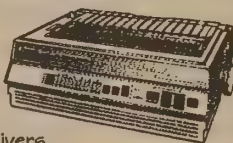
Complete system includes parallel and serial ports, 2 MB RAM, 1.2MB floppy drive, fast 45 MB hard drive, VGA color monitor, and Uncle Ralph's helpful support and service.

**COMPLETE SYSTEM**  
\$1,699 \$80/Month

### PRINTERS FOR EVERY JOB

#### PANASONIC'S OUTSTANDING NEAR LETTER QUALITY PRINTER

Here's a great buy on our most popular printer. Delivers excellent "near letter quality" print, and zooms along at 192 cps in the draft mode. Includes automatic tractor feed with paper parking and self loading.



**Panasonic**  
2 Year Warranty!  
\$159

#### STAR MICRONICS 24 PIN LETTER QUALITY PRINTER

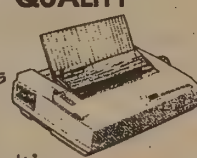
Delivers excellent "letter quality" print at 60 cps, or draft quality at 180 cps. Includes automatic tractor feed with paper parking and self loading.



**STAR**  
\$249

#### BROTHER'S TOP OF THE LINE, HI-SPEED LETTER QUALITY PRINTER

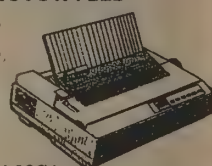
Our fastest dot matrix printer produces text and graphics that are good enough for desk top publishers. It's very fast (370 cps) easy to use, & perfect for high output users.



**brother.**  
\$369 \$18/Month  
COLOR UPGRADE AVAILABLE \$75

#### BROTHER'S 360 CPS, WIDE CARRIAGE PRINTER EXTRA STEADY TRACTOR FEED

If you need a printer with a beefy tractor feed that is practically "jam-proof", you'll love this Brother. It's fast, relatively quiet, and very easy to use. Comes with excellent letter quality & near letter quality fonts.



**brother.**  
\$499 \$35/Month

### LAPTOP COMPUTERS

#### IT'S HERE! THE 4 LB 286 LAPTOP FROM SHARP

It's finally here. The 4.4 lb wonder. Sharp's new 8 1/2" x 11" notebook computer. 286 power, a phenomenal backlit VGA screen, 20mb hard drive, and a ton of personality!



**GUARANTEED LOWEST PRICE!**

#### PANASONIC'S WONDERFUL NOTEBOOK

This tiny laptop is barely bigger than a notebook, but it's fast, fun, and has a new easy to read backlit screen. Includes 640k/RAM, AC adaptor and battery charger, and DOS.



**Panasonic**  
\$699 \$35/Month

#### MITSUBISHI PORTABLE 286 COMPUTER, 20 MB HARD DRIVE, EGA SCREEN & MODEM

This complete package includes Mitsubishi's excellent 286 laptop computer, modem, carrying case, Microsoft Works, MS-DOS, and a terrific screen. AC only.



**MITSUBISHI**  
\$1,799 \$90/Month

#### ALTIMA II LAPTOP COMPUTER The Mercedes Benz of Laptops

Here's one of the most wonderful laptops ever! It has a removable keyboard with a standard enhanced key layout. The VGA screen is bright and razor sharp. 2400B modem, 40MB hard drive, mouse and case come standard.



**altima**  
\$2,195 \$110/Month

#### EXCELL 386-SX LAPTOP w/100 MB HARD DRIVE

Lightweight, comfortable, easy to use and carry

100 Mb Hard Drive Removable keyboard & VGA screen. Includes 8 bit IBM slot for expandability.



**\$2799 \$140 Month**

### HELP

Our computer business is soaring and we need...

Experienced Computer Technicians

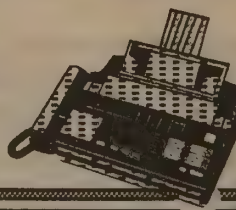
Excellent compensation, benefits & training. Ask for Terry or Adam  
Tues - Sat, 11a.m. - 6p.m.

841-5628

### FAX MACHINES

#### PANASONIC FAX With Answering Machine

**Panasonic**  
\$449 \$22/Month



#### AUDIOVOX FAX WITH PAPER CUTTER & SPEAKERPHONE

- 110V - 220V Switchable
- Hooks up to Answering Machine
- Half-tones • Papercutter
- 100 Number Memory
- Speakerphone



**\$649 \$32/Month**



# GUARANTEED!

# Uncle Ralph's

## 4. One hour repair service

If you have a problem with one of our computers we can usually have it fixed within 1 hour. It's important to us that our customers remain satisfied.

## 5. 90-day interest-free financing

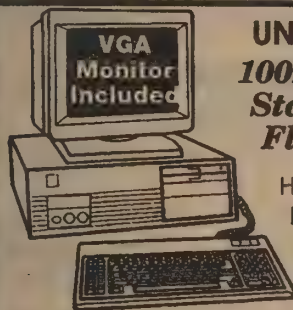
You can defer payment for 90 days and pay no interest at all! Or you can charge it to your Uncle Ralph's credit card account. Sometimes we even take cash! Subject to lender approval.

## 6. Open 7 days a week

We're open for you 7 days a week—til 8 pm Monday through Friday, and til 6 pm on weekends.

## 7. We'll keep you satisfied!

We've been putting smiles on faces for 8 years. We know what it takes to do a good job...and we do it everyday!



**\$2,495**

### UNCLE RALPH'S 25MHz 386 SYSTEMS 100MB Conner Hard Drive, 64K Static Ram Cache, 4MB RAM, 2 Floppy Drives, VGA Color Monitor

Here's a lot of computer for a very sharp price. Based on the excellent Mylex/USA 8 layer motherboard with 64K static RAM cache. The system includes a 100MB CONNER hard drive, 2 TEAC floppy drives, enough RAM for high speed compiling and multi-tasking, your choice of excellent keyboards, parallel and 2 serial ports, and VGA monitor.

### Upgrade to the Fastest 486 MOTHERBOARD

25 MHz **\$2,999**  
33 MHz **\$3,999**

The fastest rated 486's on the market are built around the Mylex 486 motherboard. Available for installation in almost any 286 or 386 clone. Includes 4 MB RAM (upgradeable to 32 MB) 128k Static RAM cache, and the industry's only Burst Mode EISA bus.

**MYLEX**



**TDK**

**SAVE ON DISKETTES!**

**(BOXES OF 10, LIFETIME GUARANTEE!)**

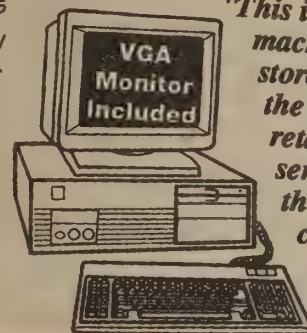
**TDK 3.5" 720K.....\$7.99**

**TDK 3.5" 1.44.....\$16.95**

**TDK 5.25" 1.2MB.....\$9.95**

### U.R./OmniTel 33 MHz 386 with Static Ram Cache, 100MB Hard Drive, 4MB RAM, 2 Floppy Drives, 1024x768 VGA Color Monitor & Tape Backup

The OmniTel motherboard is making some big waves lately and we've packaged it with other excellent components to create a high performance system. Complete system includes Conner hard drive, Viewperfect monitor, 512K VGA card, 100 MB tape backup, parallel, game, 2 serial ports, your choice of excellent keyboards, & DOS.



*"This is a fine machine from a store that is setting the standard for retail support and service... Given the quality of the components, I consider the prices excellent."*

Bernie Zilbergeld  
Computer Currents

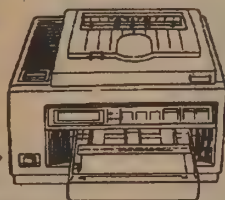
**COMPLETE SYSTEM**

**\$3,295**  
**\$165 Month**

## LASER PRINTERS

### PANASONIC 8 PAGE/MINUTE LASER PRINTER Panasonic

True laser output, 11 resident fonts, HP laserjet II emulation, 250 page paper tray, 512k RAM. Designed for high output applications, and perfect for busy offices.



**\$789** \$39/Month

### BROTHER'S TOP RATED LASER PRINTER brother

This terrific laser printer has collected Editor's Choice awards from virtually all major computer mags. It runs on the reliable Canon engine, has eight major emulations including HP Laserjet II and HPGL, includes 44 resident fonts, enough memory to do full page graphics straight out of the box, and a super sharp image.



**\$1,299**  
**\$65/Month**

## SPECIAL CLEARANCE ITEMS!

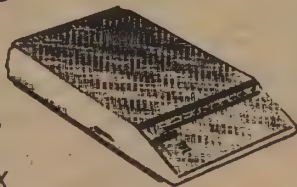
**Manager  
Specials  
available for a  
limited time!  
Great buys on  
limited quantity  
items, some  
opened, all  
guaranteed  
good condition.**

Imsi Mouse with PFS Publisher ..... \$69.99  
IMCS Mousepen ..... \$75.99  
Logitech Scanman ..... \$150.99  
Sharp Modem for Laptops (installed) .... \$150.99  
Pacific Data Products ..... \$Call  
Accucard UPS ..... \$199.95  
Everex Laser Printer Memory ..... \$199.95  
Everex RAM 8000 Card ..... \$259.99  
Everex Laser Printer ..... \$999.95  
Toshiba T3100-SX with 2MB RAM ..... \$3999

## MODEMS

### EVEREX 9600 BAUD FAX MODEM

Internal FAX board combined with 2400 baud MNP5 modem gives your computer complete sending and receiving FAX capabilities. Fast 9600 baud transmission rate, G3 compatibility.



**Internal \$299**  
**External also Available**

**MODEMS**  
Everex • Cardinal  
Anchor

From  
**\$59.95**

## MOTHERBOARDS

### MYLEX/OMNI-TEL/DEICO MOTHERBOARDS IN STOCK

|                   |                     |
|-------------------|---------------------|
| 286 16Mhz         | call for best price |
| 386SX             | call for best price |
| 386 20MHz w/cache | call for best price |
| 386 25MHz w/cache | call for best price |
| 386 33MHz w/cache | call for best price |
| 486               | call for best price |

### BUILD YOUR OWN COMPUTER!

**GREAT PRICES ON**

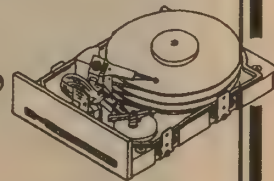
☛ Mylex motherboards ☛ RAM chips  
☛ Power supplies, video cards & everything you need to build it yourself!

## MONITORS & HARD DRIVES



Packard Bell 12" mono ..... \$79.95  
Packard Bell 14" paper-white ..... \$129.95  
Imtec VGA ..... \$329  
View Perfect 1024x768 ..... \$469  
Panasonic 1024x768VGA ..... \$499

Seagate 20 MB \$199  
Seagate 40 MB ST251-1 \$299  
Microscience 40 MB, 28 MS \$369  
Toshiba 44/68 MB \$399  
Conner 100 MB \$599  
Maxtor 200 MB \$949  
Micropolis 150 MB ESDI \$999  
Micropolis 338 MB ESDI w/controller \$1,695



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CREDIT CARD TODAY!**  
✓ LOW MONTHLY PAYMENTS!  
✓ APPROVAL USUALLY WITHIN MINUTES!  
\* SUBJECT TO LENDER APPROVAL. MONTHLY PAYMENTS SUBJECT TO INTEREST SURCHARGE. MINIMUM MONTHLY PAYMENT PER ACCOUNT IS \$15.00. DOWN PAYMENT MAY BE REQUIRED. BASED ON 24 MONTH FINANCING

**2569 Telegraph Ave. Berkeley**  
**5 blocks south of U.C.**

**841-5280**

**FAX NUMBER: 841-4743**

**open 7 days: M-F 10-8, Sat & Sun 11-6**

Items limited to stock on-hand, & subject to prior sale. Ad expires 12-18-90. O.U.R., 1990



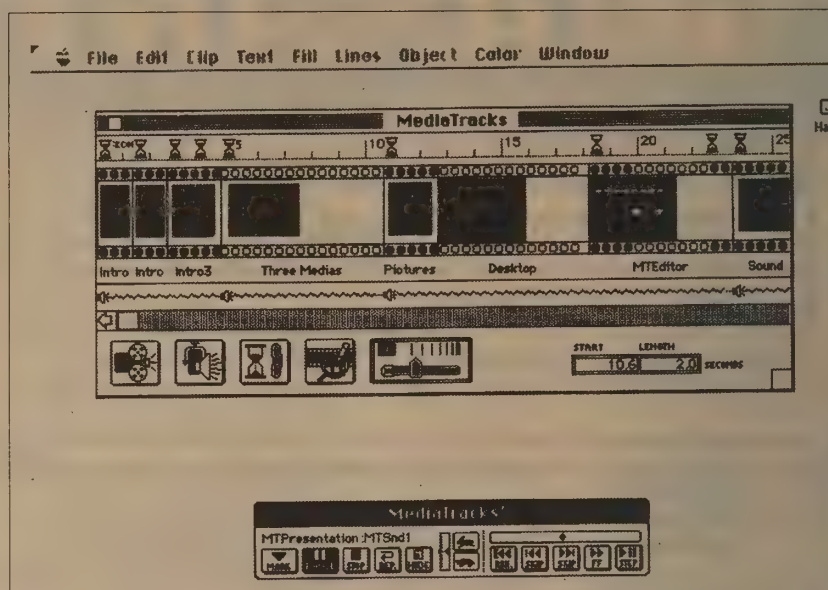
# Uncle Ralph's

**8 Years of Best Prices!**



## FRAME ACCURATE VIDEO ANIMATIONS

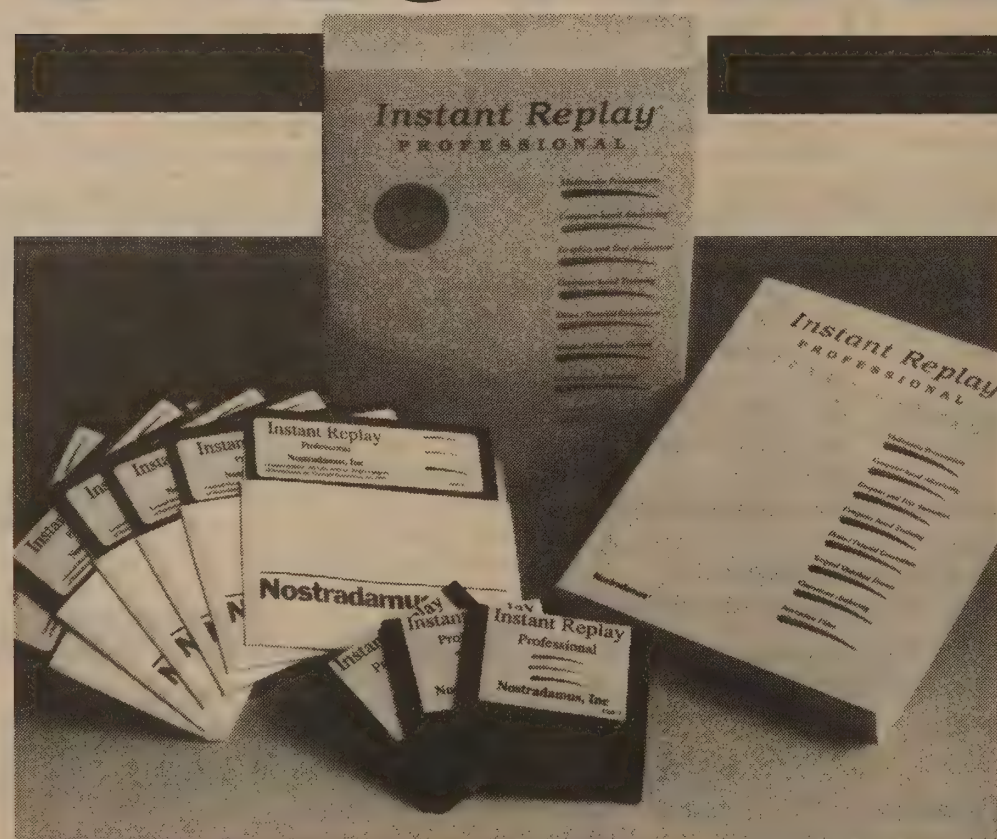
DQ-Animaq, from Diaquest, is a Macintosh animation controller designed to provide solutions for both desktop video and broadcast television production. This board is used with 3D and multimedia programs to produce frame-accurate video animations. Single or multiple video frames and real-time digital transitions can be automatically recorded onto videotape. DQ-Animaq occupies a single NuBus slot and controls a full range of professional and broadcast videotape recorders. Diaquest, Inc., 1440 San Pablo Ave., Berkeley, CA 94702. (415)526-7167.



## FARALLON ON TRACK

MediaTracks, from Farallon Computing, is a Macintosh application that allows users to record screen activity on the Mac and edit the recordings with sound, graphics and interactive buttons. The fully produced "tapes" can be played back by the user to see, hear and interact with the recording on their computer. MediaTracks is ideal creating business training presentations. For example, it serves to answer the most common types of training needs: those where novices ask expert users "how to," "what is," and "show me" types of questions. A tape might explain how to use the electronic mail system in the office, how to write a business letter in the company format, or how to submit a funding proposal. (\$295; Multimedia Pack including the Mac Recorder, \$495) Farallon Computing, Inc., 2000 Powell St., Suite 600, Emeryville, CA 94608. (415)596-9000.

# MULTIMEDIA



## INSTANT REPLAY TURNS PROFESSIONAL

Instant Replay Professional, a multimedia presentation software package by Nostradamus, Inc., is targeted at both the presentation and training market. Nostradamus plans to position Instant Replay Professional between high cost authoring system products such as Allen Communication's Quest Authoring System, and lower cost presentation products. This will translate into a powerful, yet easy to use program that will allow the PC user to combine graphics, text, music, sound, animation and video into high quality presentations. Nostradamus' VRPAA, or Visual Recording Process for Authoring Animation, is included for creating on-screen motion and developing highly interactive tutorials. Utilizing keystroke and mouse movement memorization, this process allows the user to create motion on screen simply by moving images with the mouse or keyboard. (\$595) Nostradamus, Inc., PO Box 9252, Salt Lake City, UT 84109. (801)272-0671.



# Desk Top Publishers

**Uncle Ralph's  
COMPUTERS**

**Printers, Scanners  
Cartridges...More!**

Our Computer Department is Big and Growing Bigger. We Know What Computers are All About, from the Inside Out...and, We Carry Top Quality, Name Brand Accessories, too!

**PACIFIC**  
DATA PRODUCTS

**Upgrade Your HP Laser Printer the  
Easy Way!**

## Postscript Language Emulation Cartridge

*Create and Print Complex Pages  
of Text and Graphics*

**OUT  
TYPE  
LINE**

- Scaled, screened, stretched, outlined, rotated, and skewed type
- High quality fonts at any point size
- 35 LaserWriter font families
- Supports 4 additional Bitstream downloadable outline fonts
- Ideal for word processing and desktop publishing

## Plotter in a Cartridge

**HPGL Emulation  
for Laser Printers**

- **Precise graphics** 20-100 times faster than pen plotters
- **CAD/CAM** Compatible with all major engineering, and graphics software packages.
- **One cartridge** for all users connected to a single printer.



## Headlines in a Cartridge

**LARGE** Fonts for all  
APPLICATIONS

- Faster and easier to use than scalable or soft fonts.
- Prints instantly... no downloading of soft fonts required.
- Saves hard disk space
- No additional memory required for your printer.



## 25 in One!

**172 Fonts & Symbol Sets**

- Fonts from 25 different cartridges
- 20 complete symbol sets
- Proportionally spaced, International, Legal, Scientific, Tax Preparation, Extra large and Extra small typesizes
- An excellent Value!



**STRETCH  
STRETCH**

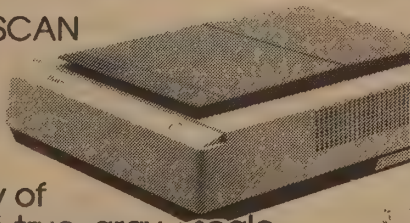
**Pacific Data  
Cartridges  
from \$159**

## Abaton A Powerful Force in Laser Printers & Flatbed Scanners

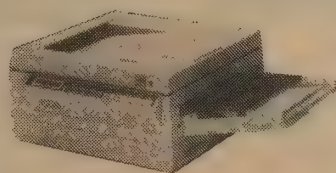
from **EVEREX**

### Abaton Scanner

The Abaton SCAN 300 is a 300 dpi, 8-bit scanner that offers the superb clarity of 256 levels of true gray-scale scanning. 8.5" x 14" flatbed scanning with SCSI interface for your particular computer environment: PC, PS/2, Mac and NeXT



**\$1199**



### Desktop Laser Printer Super sharp, very fast & very clean.

24 resident fonts & 132 soft fonts. 300 dpi, 512K memory, expandable to 4.5MB. HP emulation and 2 cartridge slots.

**\$999**

### Abaton Printers

*Choose The One That's Best For You*

#### LaserScript Printer

The Abaton's LaserScript offers affordable high-performance 300 x 300 dpi printing to handle all your desktop printing needs. Includes 35 typefaces for PostScript and 24 fonts for HP applications. Ideal for multivendor, Mac and PC networked environments.

**Postscript \$1899**

**GET YOUR UNCLE RALPH'S  
CREDIT CARD TODAY!**

- ✓ LOW MONTHLY PAYMENTS!
- ✓ APPROVAL USUALLY WITHIN MINUTES!



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MONTHLY PAYMENTS SUBJECT TO  
INTEREST SURCHARGE. MINIMUM  
MONTHLY PAYMENT PER ACCOUNT IS \$15.00.

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**5 blocks south of U.C.**

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BIG SAVINGS  
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AT

BELMONT

Special  
this  
month

\$1799

### 486-25MHz

(Optional 128K to 512K  
Cache)

- 1 MB Expandable to 16 MB on Board
- Landmark=115, MIPS V. 1.3=11.4
- Shadow RAM
- Support External Weitek 4167
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Enhanced Keyboard
- Support MS/DOS, OS/2, Unix, Xenix
- Manufactured In USA

486 EISA \$ CALL

\$1079

### 386-33 MHz 64K Cache

- 1 MB Expandable to 8 MB
- 64K Static Cache Memory
- Landmark=57
- Shadow Ram
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Socket for 80387
- 2 Serial, 1 Parallel, 1 Game Port
- 230 W Power Supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix

\$959

### 386-25 MHz 64K Cache

- 1 MB Expandable to 8 MB
- 64K Static Cache Memory
- Landmark=43.5
- Shadow Ram
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Socket for 80387
- 2 Serial, 1 Parallel, 1 Game Port
- 230 W Power Supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix

\$839

### 386-25 MHz

- Landmark=36.7
- 1 MB Expandable to 8 MB
- Shadow RAM, Page Interleaved Memory
- Socket for 387, Weitek 1167
- 1:1 Interleave HD/FD Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 1.2 or 1.44 MB Floppy Drive
- 230 W Power Supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix

OPTIONAL  
w/ system upgrades

12" Mono Monitor & Card

\$95

14" Flat Screen (Mono) & Card

\$120

VGA Monitor (640x480 .39 Dot Pitch)

\$340

W/16 Bit VGA Card

VGA Monitor (.31 Dot Pitch) w/16 Bit

\$365

800x800 VGA Card

Super VGA Monitor & Card

\$430

(1024x768 D:2B1)

\$430



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Extended Software

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### 286-20 MHz 0 Wait

- Landmark=26.5
- 512K Expandable to 8 MB
- Chip & Tech. NEAT Chip Set
- Shadow RAM for fast BIOS Access
- Page Interleaved Memory
- 1:1 HD/FD Controller
- 1.2 or 1.44 MB Floppy Drive
- 230 W Power Supply
- 101 Enhanced Keyboard

\$569

### 286-16 MHz 0 Wait

- Landmark =21
- 512K Expandable to 4 MB
- Real Time Clock
- 8 Expansion Slots
- 80287 Socket
- 1:1 HD/FD Controller
- 1.2 or 1.44 MB Floppy Drive
- 230 W Power Supply
- 101 Enhanced Keyboard

\$429

### 8088 10 MHz System

- 4.77/10 MHz Motherboard
- 256K RAM Expandable to 640K
- Fujitsu 360K Floppy Drive
- 101 Enhanced Keyboard
- 165 W Power Supply
- AT Jr. Case

\$259

### Motherboard

|                                  |        |
|----------------------------------|--------|
| 8088 10 MHz                      | \$65   |
| 286 6/12 MHz 0 Wait              | \$125  |
| 286 8/16 MHz 0 Wait              | \$185  |
| 286 8/20 MHz 0 Wait              | \$295  |
| 386SX-16 MHz 0 Wait              | \$CALL |
| 386-25 MHz 0 Wait (w/o CPU)      | \$235  |
| 386-25 MHz 64K Cache (w/o CPU)   | \$345  |
| 386-33 MHz 64K Cache (w/o CPU)   | \$415  |
| 486-25 MHz Motherboard (w/o CPU) | \$650  |

### Hard Disk

|                                   |        |
|-----------------------------------|--------|
| ST-225 (20 MB)                    | \$179  |
| ST-225 Kit                        | \$225  |
| ST-251-1 (40 MB, 28 MS)           | \$249  |
| Western Digital 40 MB IDE (28 MS) | \$235  |
| Toshiba 134FA (44/66 MB, 24 MS)   | \$299  |
| NEC 3142 (44/66 MB, 24 MS)        | \$299  |
| Conner 80 MB                      | \$460  |
| Conner 100 MB                     | \$485  |
| Conner 200 MB                     | \$820  |
| Maxtor 4170E ESDI 150 MB, 14 MS   | \$850  |
| Maxtor 4380E ESDI 320 MB, 16 MS   | \$1295 |
| Maxtor 8760E ESDI 660 MB, 16 MS   | \$1850 |
| CDC SCSI 150 MB, 18 MS            | \$850  |
| Fujitsu 330 MB ESDI               | \$1099 |

BELMONT COMPUTER  
PRODUCTS

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FAX (415) 598-0186

Hours: M-F 9-6:30 Sat 10-3

1555 Industrial Road San Carlos, CA 94070



# COMPUTER PRODUCTS

**1 YEAR**  
Parts & Labor  
Warranty  
On All  
Systems

**\$779**

## 386-20 MHz

- Landmark=34.5
- 1 MB Expandable to 8 MB
- Shadow RAM, Page Interleaved Memory
- Socket for 387, Weitek 1167
- 1:1 Interleave HD/FD Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 1.2 or 1.44 MB Floppy Drive
- 230 W Power Supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix



**\$719**

## 386-SX 20 MHz

- Landmark=26.5
- 1 MB Expandable to 8 MB
- Chip & Tech. NEAT Chip Set
- EMS LIM 4.0 Built-In On Board
- Shadow RAM
- Page Interleaved Memory
- 1:1 HD/FD Controller
- 1.2 or 1.44 MB Floppy Drive
- 2 Serial, 1 Parallel, 1 Game Port
- 230 W Power Supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix

**\$669**

## 386-SX 16 MHz

- Landmark=23.5
- 1 MB Expandable to 8 MB
- Chip & Tech. NEAT Chip Set
- EMS LIM 4.0 Built-In On Board
- Shadow RAM, Page Interleaved
- 2 Serial, 1 Parallel Port
- 1:1 Interleave HD/FD Controller
- 1.2 or 1.44 MB Floppy Drive
- 80387-SX Socket
- 230 W Power Supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix

**\$369**

## 286-12 MHz 0 Wait

- 6/12 MHz 0 Wait
- 512K Expandable to 4 MB
- Landmark=16
- 1:1 HD/FD Controller
- Real Time clock
- 1.2 or 1.44 MB Floppy Drive
- 230 W Power Supply
- 101 Enhanced Keyboard



40 MB 28MS Hard Disk ..... **\$235**  
68 MB 24MS Hard Disk (NEC or  
Toshiba) ..... **335**

80 MB ..... **480**  
100 MB ..... **485**  
150 MB 18MS ..... **722**  
200 MB 16MS ..... **1620**  
330 MB 16MS ..... **1020**

## Modem

2400 Baud (Int) ..... **.75**  
2400 Baud (Ext) ..... **.99**  
Fax Modem (9600 fax, 2400 modem) ..... **.175**  
Everex 1200B ..... **.55**  
Everex 2400B ..... **.115**  
Everex Fax Modem  
(9600 Fax, 2400 Modem, MNP5) ..... **.255**

## Printer

Star NX-1000 II ..... **.149**  
Star NX-1000 Color ..... **.199**  
Star NX 2410 ..... **.249**  
Panasonic KX-P 1180 ..... **.155**  
Panasonic KX-P 1124 ..... **.279**  
Panasonic KX-P 1624 ..... **.375**  
Panasonic 1524 ..... **.375**  
Panasonic KX-P 4420 Laser ..... **.849**

## Floppy Drive

Fujitsu 360K/1.2M ..... **.57/67**  
Teac 360K/1.2M ..... **.62/69**  
Teac/Toshiba 3.5" 720K ..... **.65**  
Teac/Toshiba 3.5" 1.44 MB ..... **.69**

## Keyboard

Mitsumi 84 Key ..... **.35**  
Mitsumi 101 Key ..... **.39**  
Keytronic 101 Key ..... **.45**  
Maxiswitch 101 Key ..... **.45**

## Misc.

287-8/10 ..... **.165/170**  
387-16/20 ..... **.315/335**  
387-25/33 ..... **.425/510**  
165W (XT) Power Supply ..... **.35**  
230W Power Supply ..... **.48**  
Logi Hi-Res Mouse ..... **.69**  
Logi Trackman Serial/Bus ..... **.85/90**  
DFI Mouse (3 Button, Micro Soft Compatible) ..... **.45**  
AT Jr. Case (XT) ..... **.32**  
AT Deluxe Case ..... **.48**  
Mini Vertical Case w/Power Supply ..... **.95**  
Vertical Case w/Power Supply ..... **.170**  
Colorado 120 MB Tape Back-Up ..... **.265**  
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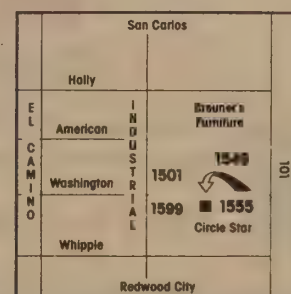
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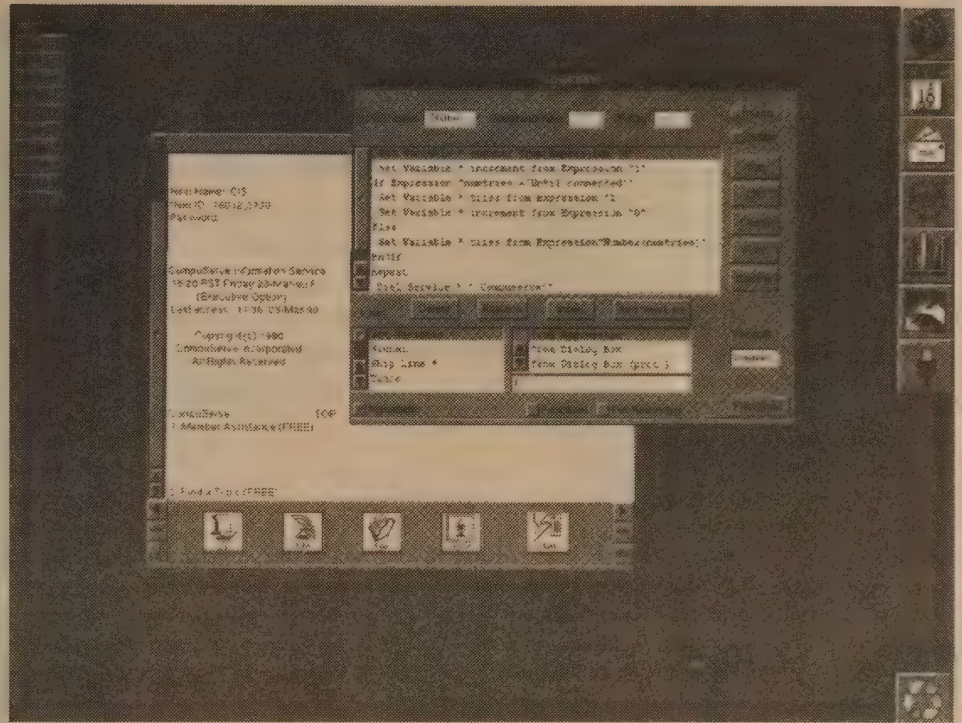
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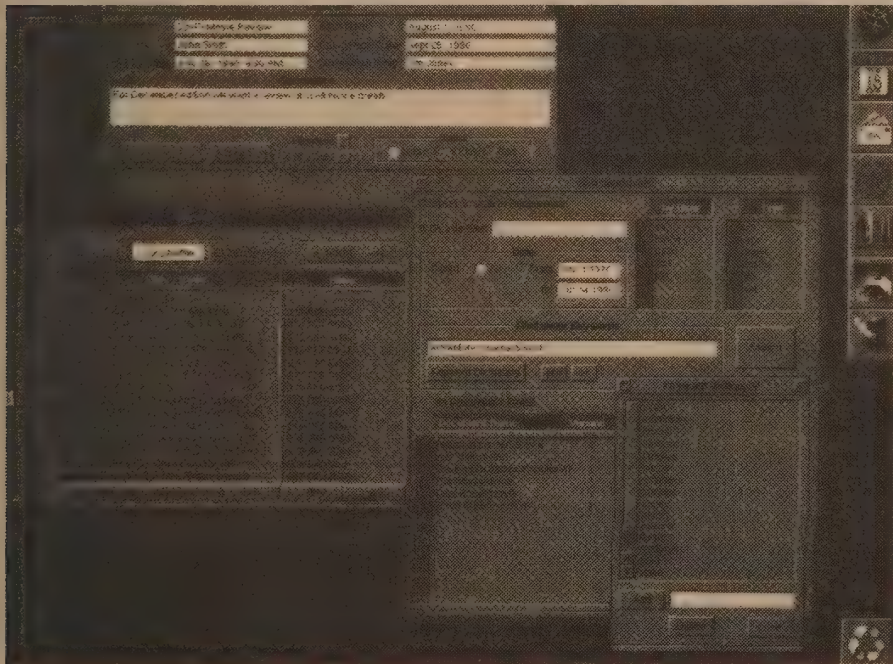
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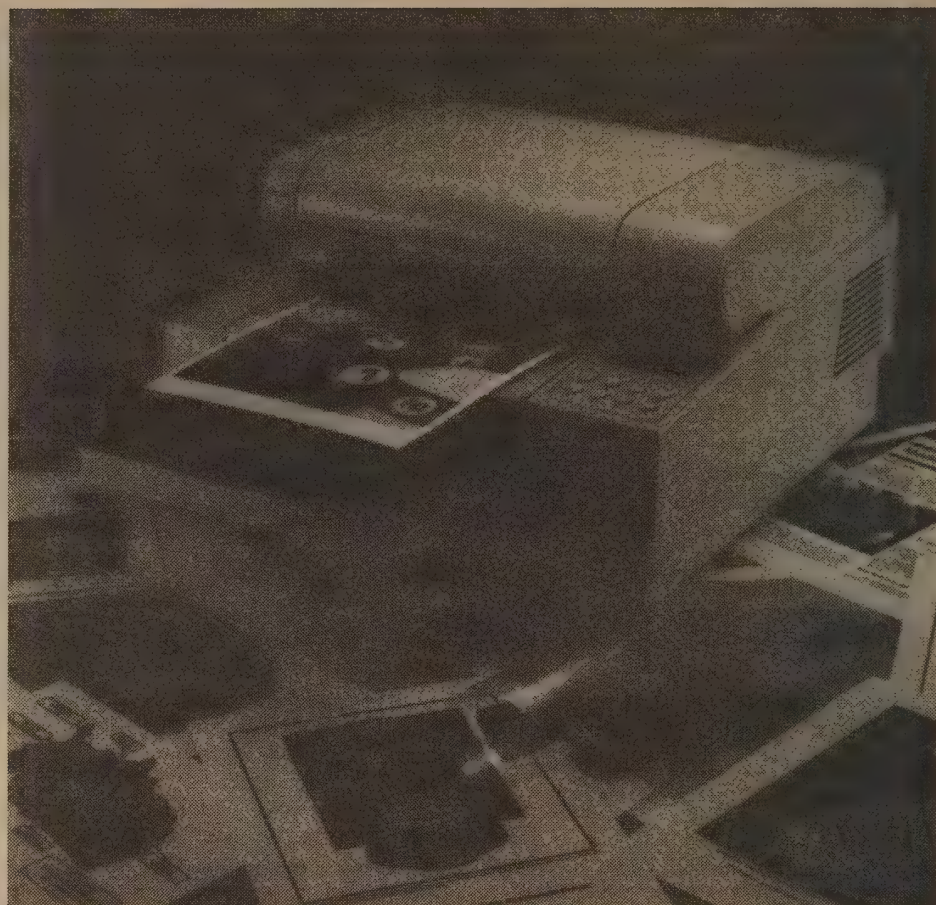
### PUBLICLY AVAILABLE NeXT SOFTWARE

The First Compilation Disk is a collection of the most popular software publicly available for NeXT computers. Uncompressed, this disk contains about 400Mb of software, including a diverse selection of utilities, programming languages, games, and information files. It also includes one year of NeXT-specific Usenet network news, and for the experienced user, hundreds of old-fashioned UNIX programs. All the software on the disk is freely copyable—the price covers media and handling fees. This collection is updated continuously. (\$125) Lighthouse Design, Ltd., 6516 Western Ave., Chevy Chase, MD 20815. 1-800-366-2279.



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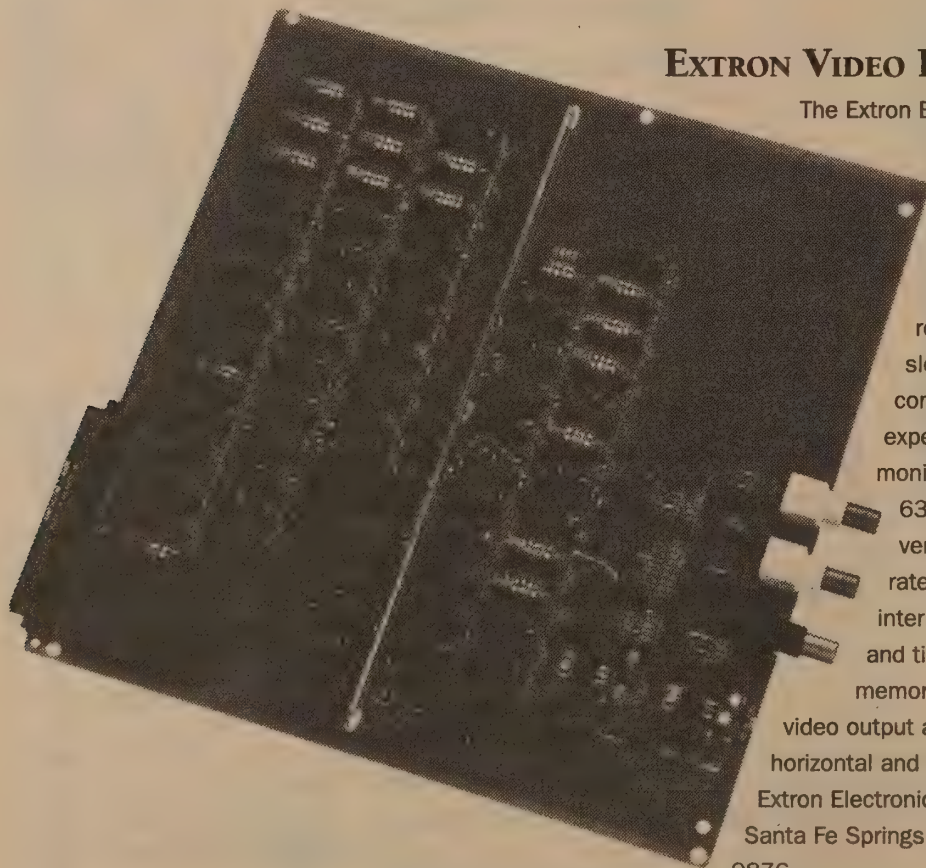


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The Extron Board allows NeXT computers to display video from the MegaPixel Display on a large screen data projector or monitor. The board converts high-resolution video signals to a slower rate, allowing the connection of a NeXT to less expensive and more available monitors. The board accepts the 63kHz horizontal, 63.8Hz vertical high-resolution scan rate data directly from the internal video data bus. Data and timing are manipulated in memory to generate an interlaced video output at approximately 31kHz horizontal and 34Hz vertical. (\$2500) Extron Electronics, Inc., 13554 Larwin Cr., Santa Fe Springs, CA 90670. 1-800-633-9876.

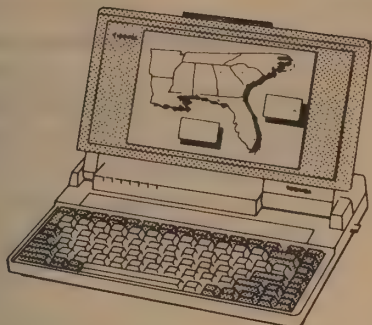


### GATORS EVERYWHERE

GatorShare software from Cayman Systems turns the GatorBox Ethernet device into a file-sharing gateway between Macintosh networks and the NeXT computer networks or other computers that support NFS. This gateway allows data sharing between compatible Mac and NeXT applications. Since GatorShare runs on the GatorBox, rather than on network clients, you don't need to upgrade GatorShare to respond to Mac system upgrades. When Cayman issues a GatorShare revision, you simply download it to the GatorBox. (\$1995) Cayman Systems, Inc., 26 Landsdowne St., Cambridge, MA 02139. (917)494-1999.



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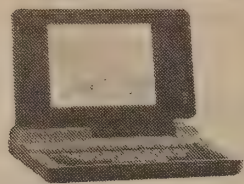
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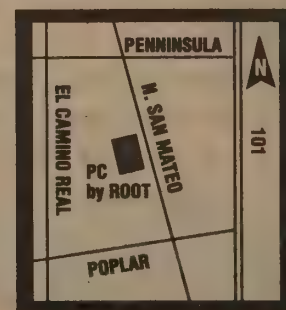
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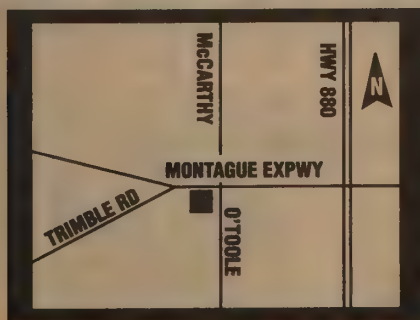
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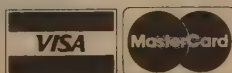
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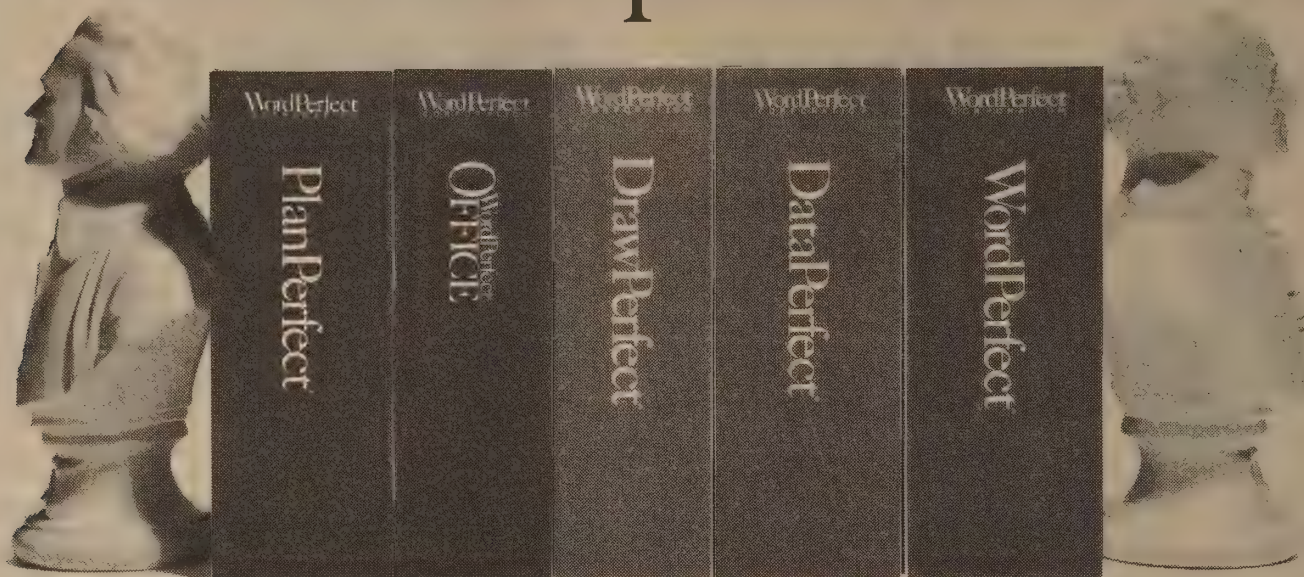
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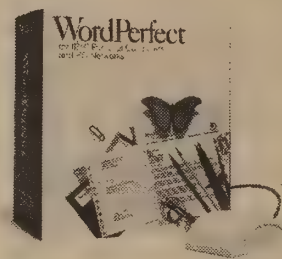
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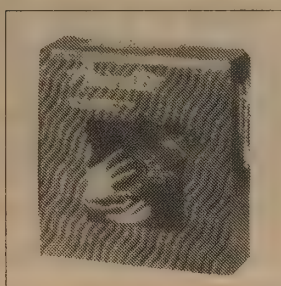
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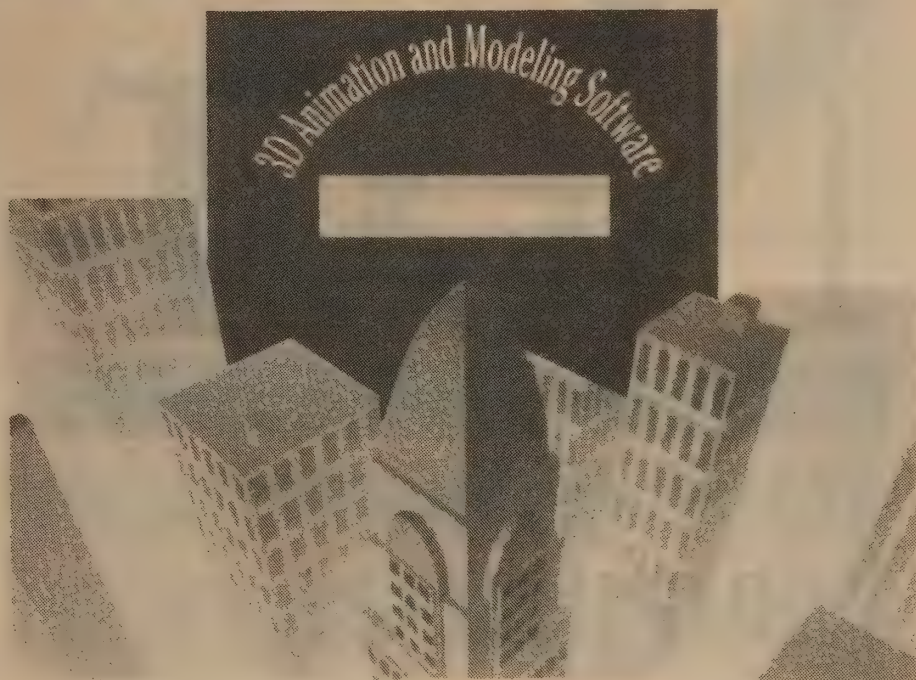


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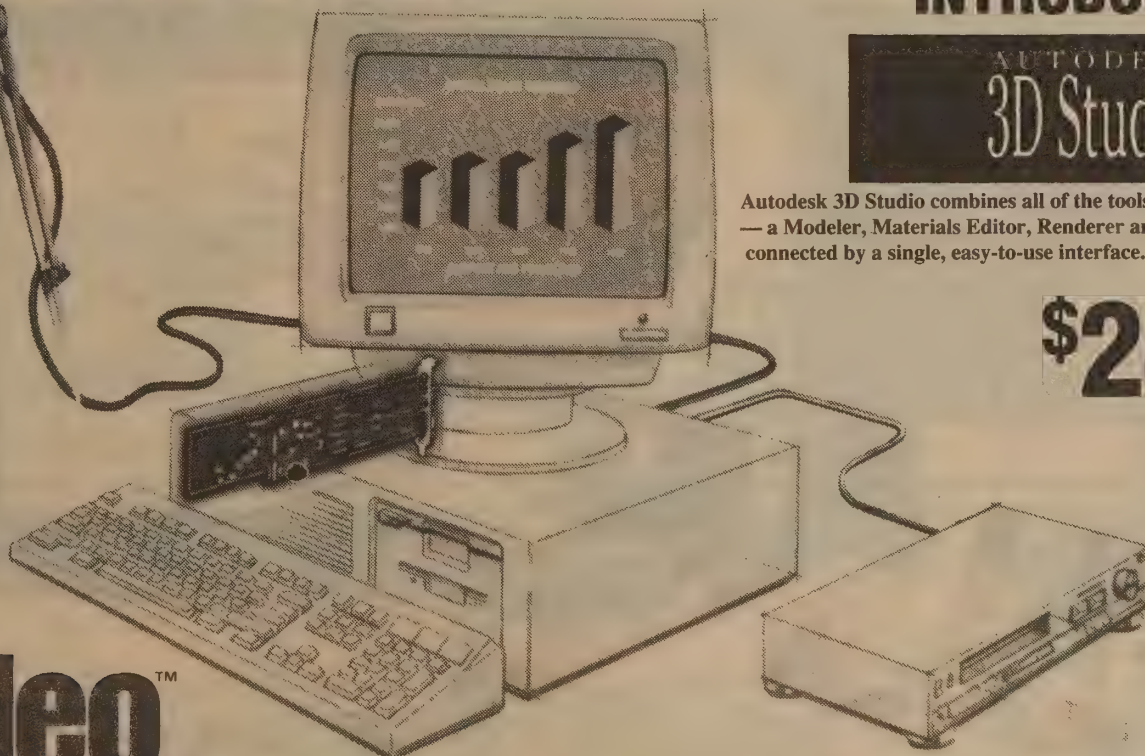
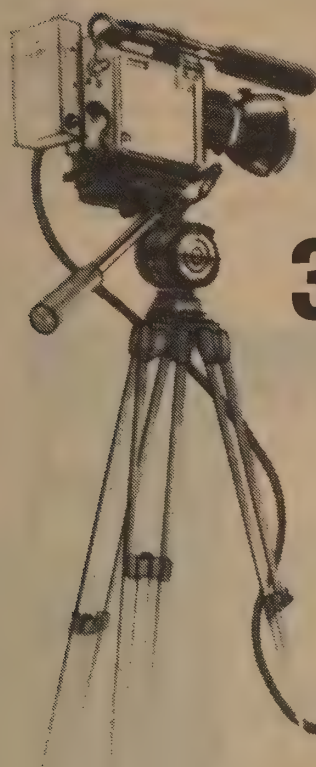


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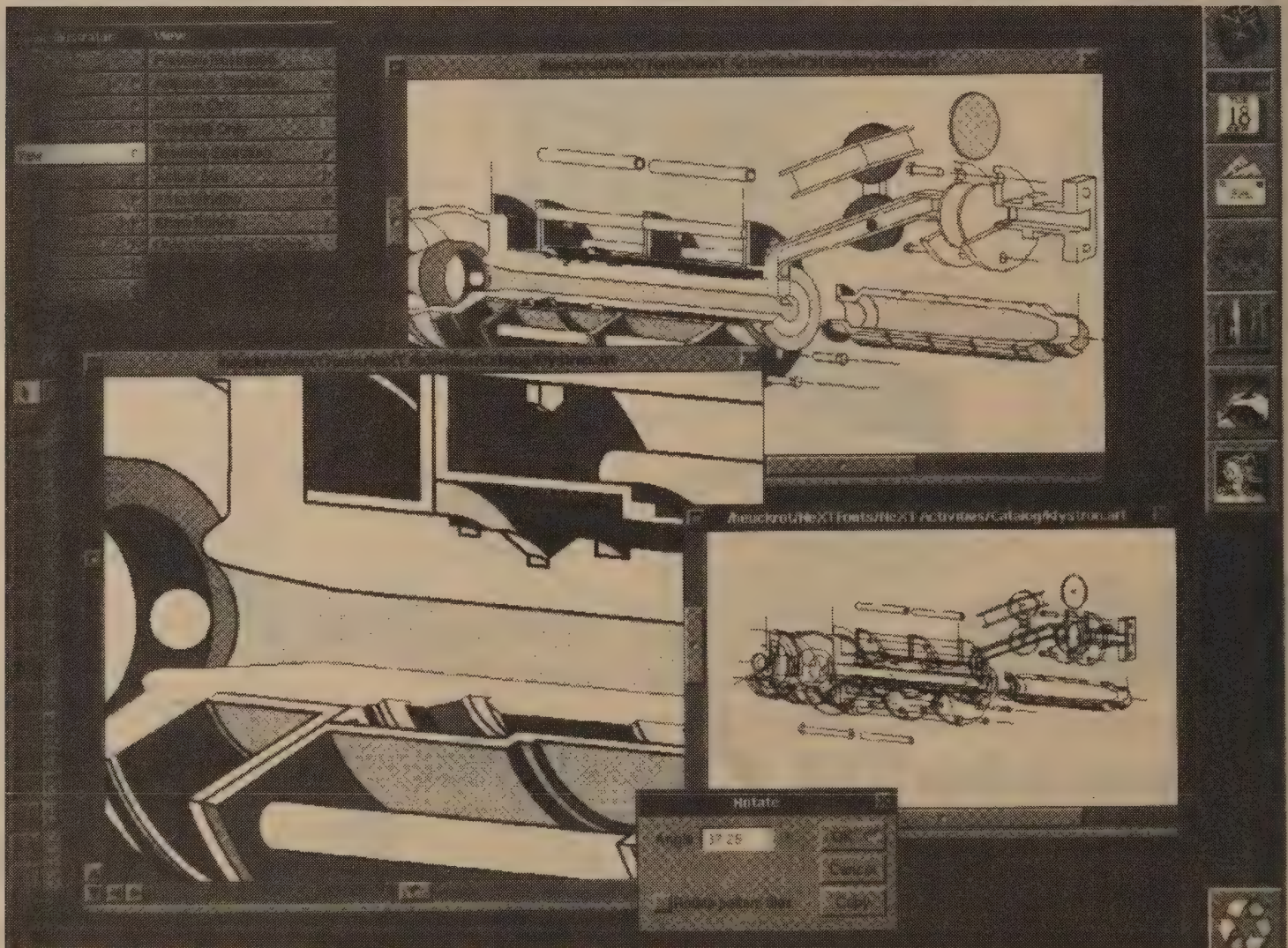


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- BTC 101 Key .....45
- MCK 101 w/Multiple Template .....40

## HARD DRIVES

- Western Digital 40 MB, 28ms IDE .....\$259
- ST225 21 MB, 65ms MFM .....184
- ST251-1 40 MB, 28ms MFM .....249
- Toshiba 134FA 44 MB/66 MB, 25ms,  
MFM RLL .....299
- Conner CP3044 40 MB, 25ms IDE .....345
- Conner CP3184 80 MB, 25ms IDE .....499
- Conner CP3104 100 MB, 25ms IDE .....549
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- Fujitsu 360K/1.2 MB .....\$60/65
- Teac 360/1.2 MB .....60/65
- Teac 3.5" 1.44 MB .....65
- Fujitsu 1.44 MB .....65
- Toshiba 3.5" 1.44 MB .....65

## MISC.

- I/O (2S/1P/1G) .....\$25
- 2400B Modem Int .....78
- 2400B Modem Ext .....85
- FAX/Modem .....188
- Logitech C9 Ser/Bus Mouse .....68/72
- Smart Mouse .....49
- Tape Back-Up 80 MB .....295
- MS DOS .....58
- Tower Case .....175
- Mini Tower Case .....110
- Regular AT Case .....52
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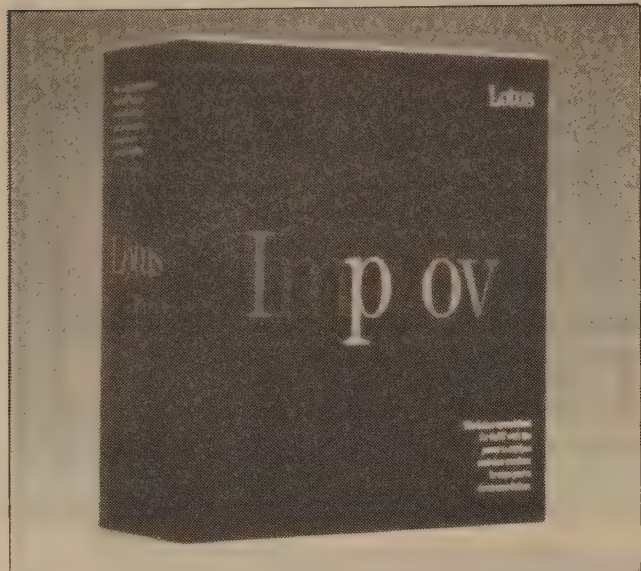
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## LOTUS IMPROV

Lotus Improv, designed specifically for the NeXT, offers a new approach to spreadsheets. DaynaView allows users to quickly view and compare data in different ways, without manually rebuilding the spreadsheet. Improv gives unlimited flexibility—data can be viewed or arranged to compare data relationships, summarized data can be expanded to show detail, or information can be hidden for clarity. The superior graphic analyses and presentation tools take advantage of NeXT capabilities to provide compelling presentations with data, text, images and sound. Lotus Improv will be free to all customers who buy one of NeXT's newest computers or who upgrade their current NeXT computer. This introductory offer will be in effect through December 31, 1990. Lotus Development Corp., 55 Cambridge Pkwy., Cambridge, MA 02142. (617)557-8500.

## SYBASE UNLIMITED SQL SERVER

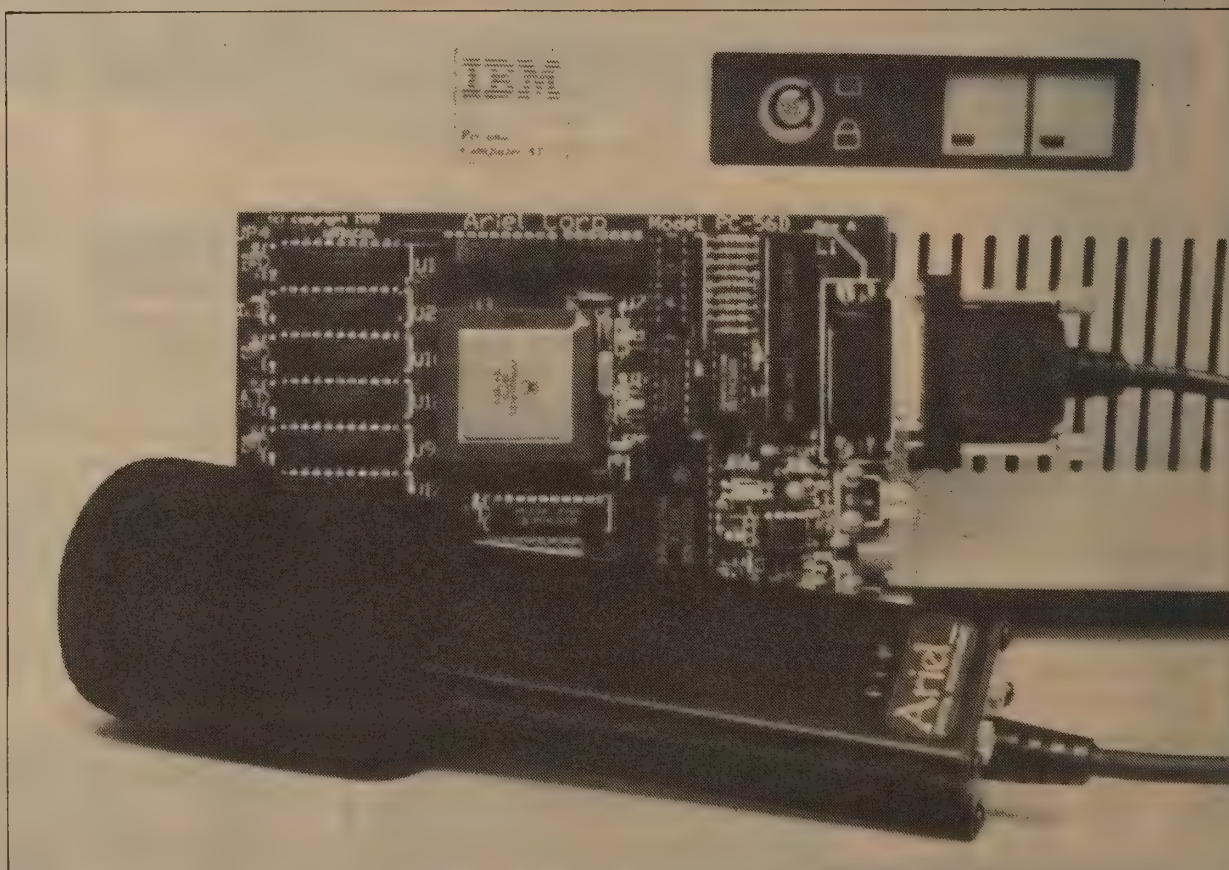
An unlimited user version of the Sybase SQL Server will be bundled with the NeXT Database Developer's System. SQL Server provides a powerful and flexible solution for your database needs, whether simple decision support or more complex transaction processing. Sybase also provides DB-Library, a call-level interface to SQL Server that can be used with NeXT's Interface Builder and Objective-C to create database applications using SQL Server. SQL Server's programmable server handles data management and transaction functions separately from user interface and application functions through the use of stored procedures and triggers. The result is high performance, rapid development and efficient maintenance of applications and improved reliability. Sybase, Inc., 6475 Christie Ave., Emeryville, CA 94608. (415)596-3500.

# NeXT

## SOFTWARE & PERIPHERALS

### COMPLETELY DIGITAL ARIEL MICROPHONE

The DM-N Ariel Digital Microphone is the world's first microphone based completely on digital electronics. Using two Motorola 56ADC chips, the DM-N captures stereo analog signals, such as voice or music, and then digitally encodes these signals for the computer to analyze, modify or store on a computer disk. It's compatible with all existing software that makes use of the NeXT DSP port, including DSPtape, sndrecord, sndplay, and MonsterScope. Supplied with a removable wind screen, 2.5 meter cable, and the DSPtape recording application, the Ariel Digital Microphone comes complete with everything you need to turn your computer into a powerful digital audio workstation. (\$595) Ariel Corp., 433 River Rd., Highland Park, NJ 80904. (201)249-2900.





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## One Year Parts and Labor Warranty

486-25 MHz SYSTEM **\$1949**

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386-25 MHz SYSTEM **\$829**

386SX-16 MHz SYSTEM **\$580**

286-12 MHz SYSTEM **\$360**

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286-12 MHz  
LAPTOP SYSTEM **\$1699**

\* Call For Configuration

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- ☐ 2 Serial/1 Parallel
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WD 85 MB HARD DRIVE ....\$440 qty 20  
WD ESDI 1:1 2FD/2HD  
CONTROLLER.....\$125 qty 20

#### HARD DRIVES

20 MB ST-225, 65ms...\$184  
40 MB WD95044 ....252  
66 MB Toshiba 134FA,  
25ms.....344  
90 MB Fuji, 24 ms...485  
110 MB NEC D3661,  
18ms.....638  
150 MB NEC 5655,  
18ms.....768  
330 MB XT-4380,  
18ms.....1348

#### VIDEO CARDS

Mono Graphics w/P...\$25  
Color Graphics w/P...35  
EGA .....69  
VGA (800x600).....69  
VGA (1024x768).....94  
ATI (1024x768, 512K)...188  
Video 7 VRAM  
1024x768, 512K)...398  
VGA (1024x768, 1 MB) 175

#### FLOPPY DRIVES

360KB 5¼" Teac/  
Mitsumi.....\$65/60  
720KB 3½" Teac.....69  
1.2 MB 5¼" Teac/  
Digital Sys.....68/65  
1.44 MB 3½" Teac/  
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Panasonic KX-1180...\$155  
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Panasonic KX-1524 ..448  
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RLL (1:1) 2 FD/2 HD ..105  
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XT 2 HD.....46  
IDE (1:1) 2 FD/2 HD...25

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14" Mono .....94  
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EGA .....288  
VGA .....310  
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NEC 3D .....588

#### MISC.

I/O (2S/1P/1G) .....\$25  
2400B Modem (int)....68  
2400B Modem (ext) ...85  
FAX/Modem.....188  
Logitech C9  
Ser/Bus Mouse...68/72  
Smart Mouse.....29  
Tape Back-Up Drive...285  
101 Enhanced Keyboard 38  
MS DOS .....58  
Tower Case.....180  
Mini Tower Case ....110  
Regular AT Case.....52  
Baby AT Case .....52

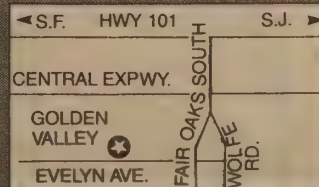
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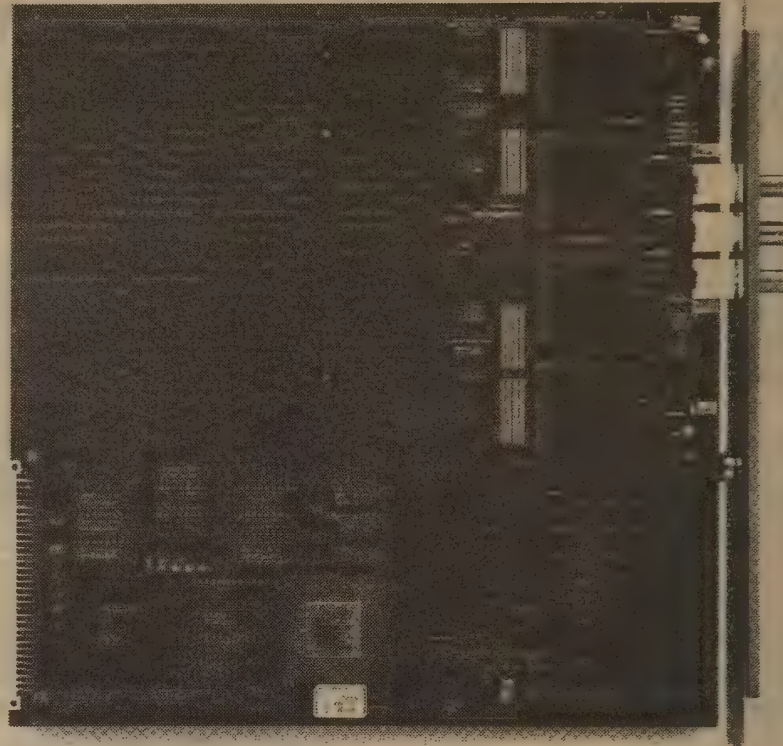
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# NeXT

## SOFTWARE & PERIPHERALS



### DAEWOO TELECOM COLOR IMAGE PROCESSING

The Daewoo Graphics & Imaging System is a true color graphics and image processing board powered by a Texas Instruments TMS 34020 graphics processor. This system provides a 1280 x 1024 color display that can be windowed anywhere within a 2K x 2K x 32-bit frame buffer. The 160MFlops peak performance allows real-time response to graphics and imaging operations. With this system you can develop diverse applications using the programming and user interface tools provided by the NeXT computer. Leading Edge Products, Inc., 117 Flanders Rd., Westboro, MA 01581. (508)836-4800.

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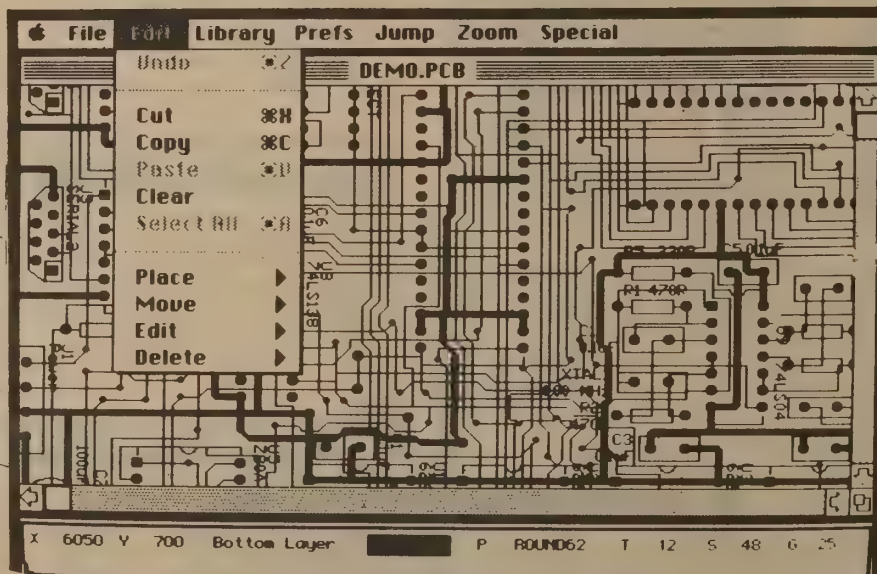
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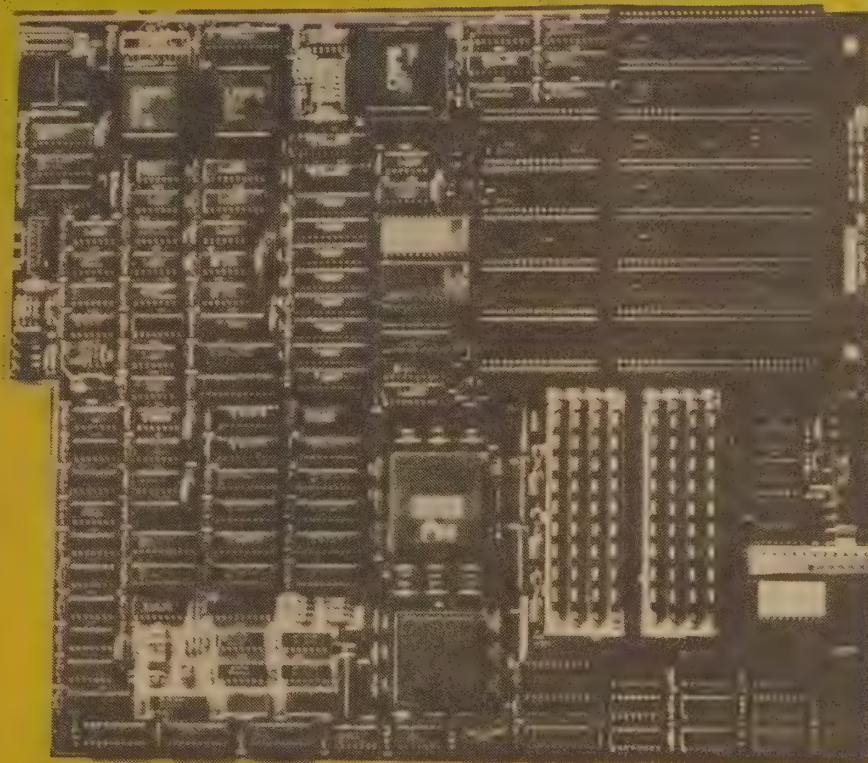


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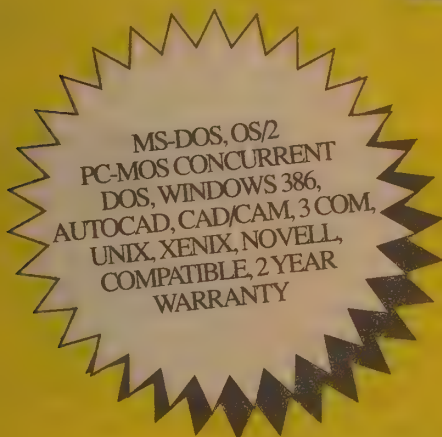
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Because Power Users depend heavily on their engine for high performance tasks, USM-OMNI cache motherboards satisfy their demanding requirements. Power Users have different needs; a reliable machine, easy to upgrade and easy to use. Thus the Power Users need the USM-OMNI Cache Motherboards.

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Full size, 33MHz CPU, 64KB CACHE, FCC CLASS B  
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Baby size, 20MHz CPU, 32KB-64KB cache  
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OmniTel 486-25MHz.....  
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### OmniTel 386-33 64K CACHE SYSTEM

4MB RAM, 100MB HARD DISK, DUAL FLOPPY, PIXEL  
VGA-1MB CARD, 1024X768, 256 COLORS

- OmniTel 386-33 64K Cache Motherboard
- 4MB RAM, 70ns
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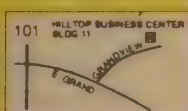
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| 128K Cache | 64K Cache | 64K Cache |
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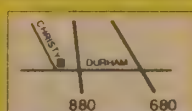
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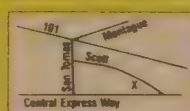
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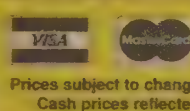
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# COMPLETE SYSTEMS

## WITH VGA COLOR & HARD DISK

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w/SYSTEM  
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#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
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- 16 bit VGA Card
- Minitower case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$975**

### 286-16

#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Minitower case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$1025**

### 286-20

#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Minitower case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$1095**

### 286-25

#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Minitower case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$1150**

### 386SX-16

#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Desktop case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$1245**

### 386-25

#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Desktop case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$1495**

### 386-25/64K Cache

#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Desktop case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

**\$1695**

### 386-33/64K Cache

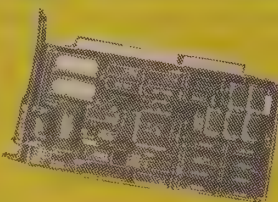
#### 42 MB Hard Drive Color VGA System

- 1 MB RAM with EMS
- 42 MB Western Digital Hard Disk, 28ms
- VGA Color Monitor 640x480
- 16 bit VGA Card
- Desktop case w/200W
- 1.2 or 1.44 Floppy
- 2 Serial, 1 parallel, 1 game
- 101 Enhanced Keyboard

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### USM Pixel Ultimate VGA - 1MB Video Ram 1024 x 768 - 256 Colors

This card supports resolutions up to 1024 x 768 with 256 color and is compatible with all systems from XT's to 486-based machines. USM includes software drivers for AutoCAD, Windows 3.0, Word Perfect 5.1, Lotus 1-2-3, and many others. Other features are 132-column text modes, mixed graphics and text windows, split-screen features, and FASTBIOS.



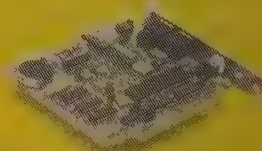
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NEW Pixel UltraFast  
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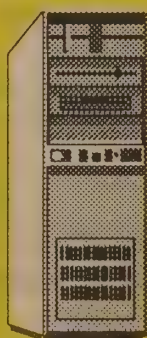


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- 1.2 MB or 1.44 MB Floppy Drive
- 101 Enhanced Keyboard
- 2 serial, 1 parallel, 1 game
- Mid-tower/Power Supply

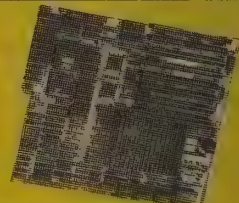


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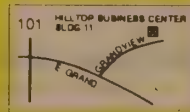
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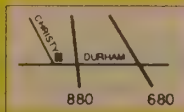
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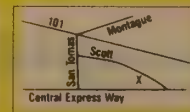
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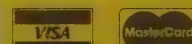
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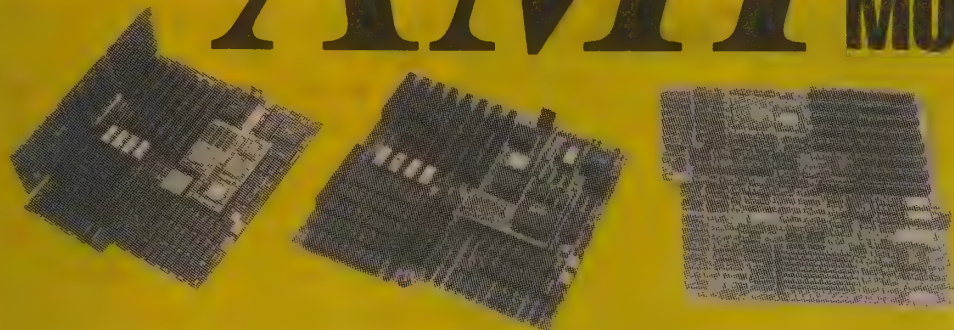


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# AMI THE LEADER IN HIGH PERFORMANCE MOTHERBOARDS



## 386SX-16

AMI motherboards are extremely reliable and are designed to perform in any conditions. They are tested at 130° F and feature a one year limited warranty.

## 386SX-20 Cache

To improve reliability and minimize noise we use 8 layer PC board construction. Not the common 4 or 6 layer you see elsewhere. One look shows.

## MK III 386-25

This board is convertible to a Mark II 486 by simply plugging in a 486 Mark II adapter into the CPU slot! You can increase performance when your needs increase.

## MK II/F4 386-33

With world-famous AMI 386 BIOS (with built-in set-up diagnostics) as well as a unique cache design. The AMI 386 AT motherboards are well suited for CAD/CAM, networking, multiuser and multitasking applications.

## MK IV 386-33

### Convertible to 486

The Screamer 64/256K Writeback Cache  
The Fastest 386-33 in the World, 8.32 MIPS!  
Convert this motherboard to a MARK IV 486 by plugging in a 486 MARK III Adapter in the CPU slot!  
The Upgrade to 486 is very easy. You remove the case top, plug in the adapter card and replace the case top. The AMI BIOS automatically takes care of ALL the rest of the conversion. This board is expandable to 64 MB on board. At AMI quality is a passion. All products go through extensive burn-in and other tests to meet the highest quality standards.

## Voyager 486-25/33 MHz

The Voyager features the latest in state of the art 486 technology, at a price that offers the biggest bang for your buck.

## EISA 486-25/33

### Enterprise

The Enterprise uses the AMI EISA BIOS with built-in set-up and diagnostics and supports all the new EISA features. The Enterprise is well suited for popular applications relating to CAD, CAM, networking, multi-user and multi-tasking functions.

## The Best Utility in the World! AMIDIAG

The advanced AMIDIAG Utility from AMI is fully menu driven and compatible with 286, 386, 486 machines. In addition to checking system board, memory and peripherals, AMIDIAG also provides a graphical representation of DRAM and SIMM memory error plus error logging on both disk and printer. This utility performs diagnostics for: System board, Memory, Hard Disk, Floppy Drive, Video, and more.

PC Magazine, Aug. '90 writes, "It's simple to use, appears to be extremely accurate, and should be added to your must have list of software."



**EDITORS CHOICE**

## SEEMS

### Software Emulated Expanded Memory System

EMS 4.0 driver for  
286/386/486  
16 MB Support  
Expanded/extended  
memory

386 code (faster execution)  
Installation program to  
configure for various  
chipsets

### AMI 386SX-20 Cache WITH PIXEL ULTIMATE VGA 1024x768, 256 COLORS



MINI-VERTICAL CASE  
1 MB EXP TO 8 MB  
101 KEYBOARD  
2 SERIAL/1 PARALLEL  
HD/FD CONTROLLER  
1.2 OR 1.44 FLOPPY DRIVE  
PIXEL VGA w/1 MB

**\$1290**

### OPTIONS:

WD 40 MB HARD DRIVE ADD \$200  
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4 MB RAM UPGRADE .....190

### AMI MkIII 386-25 486 CONVERTIBLE 64K CACHE, UP TO 32 MB ON BOARD WITH PIXEL ULTIMATE VGA 1024x768, 256 COLORS



MINI-VERTICAL/DESKTOP CASE  
1 MB EXP TO 32 MB  
101 KEYBOARD  
2 SERIAL/1 PARALLEL  
HD/FD IDE CONTROLLER  
1.2 OR 1.44 FLOPPY DRIVE  
PIXEL VGA w/1 MB

**\$1690**

### OPTIONS:

WD 40 MB HARD DRIVE ADD \$200  
100 MB HARD DRIVE .....400  
1024x768 MONITOR .....350  
4 MB RAM UPGRADE .....190

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1.2 OR 1.44 FLOPPY DRIVE  
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1024x768 MONITOR .....350  
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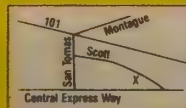
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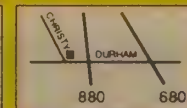
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## REGAL EXPRESS

The Micro Express Regal II/33 is a portable computer with a high-resolution (640 x 480 pixel with sixteen shades of gray) VGA gas-plasma display, 4Mb RAM, a 40Mb hard disk drive and both a 1.44Mb 3.5" floppy drive and an external 1.5Mb 5.25" floppy drive. The detachable 102-key keyboard includes a separate numeric keypad. The driver display can also run an external 800 x 600 color VGA monitor. A 15-month warranty covers parts and labor, and a 30-day moneyback guarantee is also included. Micro Express will pay return shipping costs and promises a 48-hour or less turn-around time for repairs. (\$3899 with VGA display, \$3599 with EGA display) Micro Express, Inc., 1801 Carnegie Ave., Santa Ana, CA 92705. (714)852-1400.

# PORTABLES

## INTERNOTE ON THE GO

The Ogivar Technologies Internote 286 is a lightweight notebook computer featuring a VGA-compatible LCD display, a full-sized keyboard and a 20Mb hard disk drive. Other features include 1Mb RAM expandable to 5Mb, a 12.5MHz operating speed, high-density 10" display with 640 x 480 resolution and a VGA video adaptor to convert colors into thirty-two shades of gray. (\$2999) Ogivar Technologies, Inc., 810 Fort St., Suite 310, Victoria, BC, Canada V8W 3A9. (604)389-0688.

## DELL-LITE LAPTOP

Broadening its laptop product line, Dell Computer introduced the System 320LT, a 20MHz 386SX portable. The 320LT supports MS-DOS, OS/2 and UNIX operating systems and has the power to run sophisticated software such as desktop publishing, spreadsheets and

CAD/CAE. The adjustable and detachable supertwist VGA display supports resolution of 640 x 480, while the external VGA monochrome and color VGA displays supported by the 320LT support an external Super VGA color monitor with 800 x 600 resolution. Dell's Continuous Power Battery Pack allows the user to change batteries in the middle of an application without turning off the

system by using a permanent internal battery for the time it takes to replace the battery pack. (320LT with 20Mb hard disk drive and 1Mb RAM, \$3599) Dell Computer Corp., 9505 Arboretum Blvd., Austin, TX 78759. (512)338-4400.

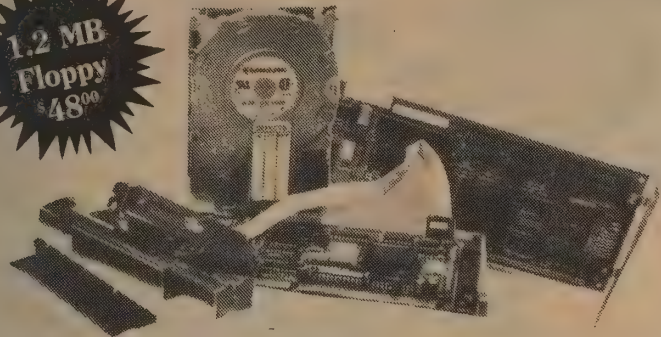




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|----------|-----------|
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| 386SX-20 | \$380 EA  |
| 386SX-16 | \$310 EA  |

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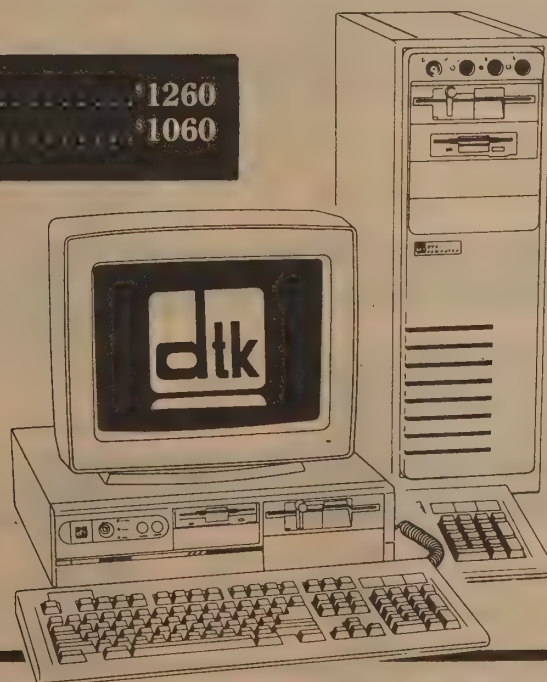


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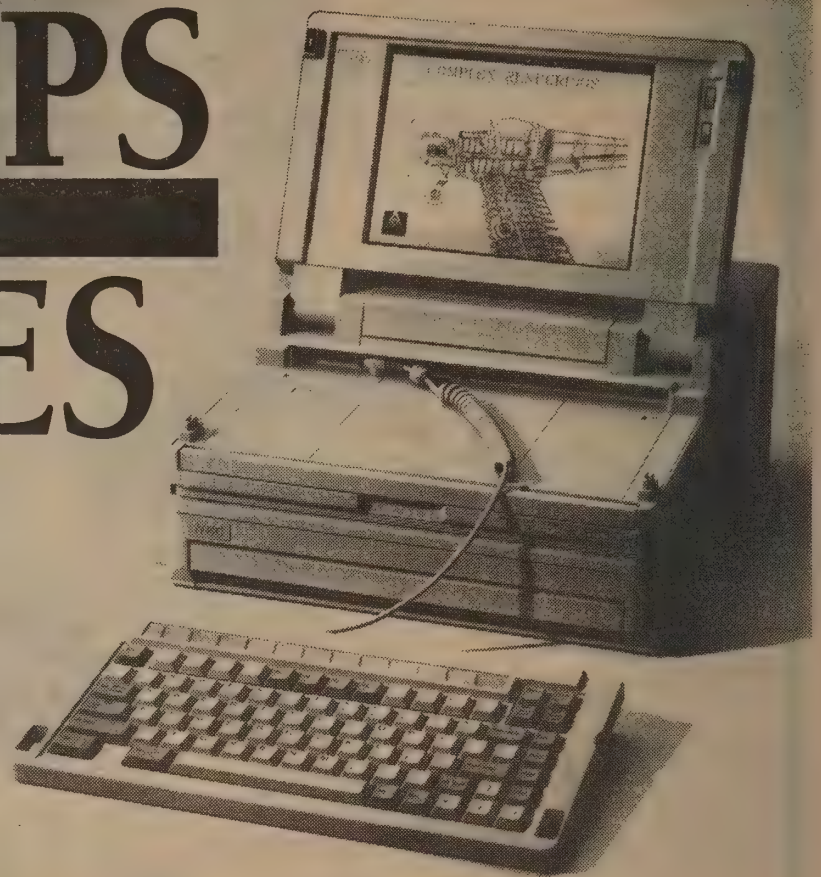


# NEW PRODUCT BUYERS GUIDE

# LAPTOPS PORTABLES

## NEC GOES MODULAR

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- High resolution VGA card
- Black & White VGA monitor
- 40MB Hard Drive

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### 386-20 MHz

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- Black & White VGA monitor
- 40MB Hard Drive

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### 386-25 MHz

- High resolution VGA card
- Black & White VGA monitor
- 40MB Hard Drive

**\$CALL**

### 386-33 MHz

- High resolution VGA card
- Black & White VGA monitor
- 40 MB Hard Drive
- HP Compatible

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| VGA .....        | 375   |
| Multi Scan ..... | 449   |
| NEC-3D .....     | 625   |

### Printers

|                                       |       |
|---------------------------------------|-------|
| Panasonic 1180 .....                  | \$185 |
| Panasonic 1191 .....                  | 245   |
| Panasonic 1124 .....                  | 325   |
| Panasonic 1624 .....                  | 425   |
| Panasonic Laser .....                 | 1395  |
| Texas Instruments Laser Printer ..... | 2495  |

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|------------------------------------------------------------------------|--------|
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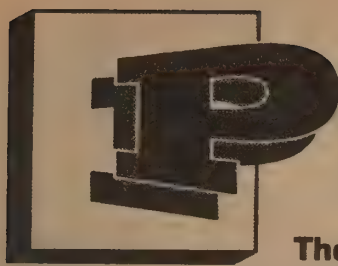
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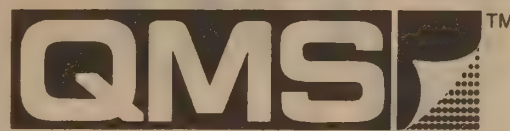


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# HARDWARE

## BUYERS GUIDE

# 486

11.1 MIPS

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**\$3395**

### Standard Configuration

- Intel 80486/25 (B6) CPU
- Fast 80ns, 4MB memory
- 8KB Cache Intergrated in CPU
- Math Coprocessor Intergrated in CPU
- Fast 150MB ESDI Hard Disk Drive 18ms Access time
- ESDI 32KB Cache Controller
- 1.2 MB or 1.44MB Floppy Drive
- 2 Serial / 1 Parallel / 1 game Port
- 101 Keyboard
- 230W Power Supply
- Desktop Case
- Built-in Real Time Clock

### Feature

- Memory expandable to 16MB
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- 32 Bit memory expansion slot
- six 16-bit, Two 8-bit expansion slots
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- 1 Year Warranty
- Made In U.S.A

CAD/CAM, LAN, UNIX, XENIX, Window 3.0....

### EXP 386 / 286 SYSTEM PRICE LIST

| MODEL                    | Basic | Monochrome System price | VGA(1024x768) System price | Options        |
|--------------------------|-------|-------------------------|----------------------------|----------------|
| 386/33<br>(64KB Cache)   | 1495  | 1595                    | 2045                       | 40MB HDD 250   |
| * 386/25<br>(32KB Cache) | 1295  | 1395                    | 1845                       | 80MB HDD 550   |
| 386/25                   | 1095  | 1195                    | 1645                       | 100MB HDD 570  |
| 386/20                   | 995   | 1095                    | 1545                       | 150MB HDD 850  |
| 386SX/16                 | 745   | 845                     | 1295                       | 200MB HDD 895  |
| 286/12                   | 495   | 595                     | 1045                       | 338MB HDD 1595 |
|                          |       |                         |                            | 676MB HDD 2395 |

### Basic System Configuration

- 1MB Memory
- Desktop Case
- Real-time Clock
- 230W Power Supply
- Coprocessor Socket
- 1:1 Interleave IDE Cont.
- 1.2MB or 1.44MB Floppy Drive
- 101 Keyboard (Click or non Click)
- 2 Serial / 1 Parallel / 1 Game Port
- Made in U.S.A.



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### Qume CrystalPrint Publisher II

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- \* Parallel interface
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The QM835 is a 14" analog color monitor with resolution up to 1024X768

- \* Non-glare etched screen
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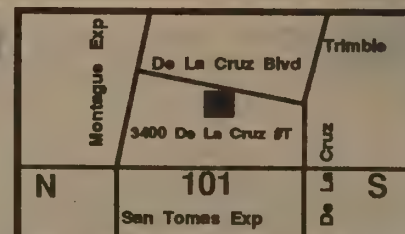
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# HARDWARE

## BUYERS GUIDE

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- 2 Years** parts and labor warranty

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- Everex Viewpoint VRAM VGA Card
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### Monitor / Graphic Card

#### Monitor

##### MITSUBISHI

- HL6615TK, 16", VGA to 1280X1024N 1145
- HL6905TK, 20", VGA to 1280X1024N 1999

##### HITACHI

- CM2085, 20", VGA to 1280X1024N 1949
- HM4319D, 20", VGA to 1280X1024N 1995
- HM4119DDL, 20", 1024X768N 2199
- HM4119DAA, 20", 1280X1024N 2299

##### NEC

- NEC 4D, 16" VGA to 1024X768N 1199
- NEC 5D, 20" VGA to 1280X1024N 2295

##### PHILIPS

- C1764, 17" VGA to 1280X1024N (Flat) 1499
- C2064, 20" VGA to 1280X1024N 2095

##### NANAO

- 9070S, 16", 20-50KHz 1024X768N 979
- 9400, 20", VGA to 1280X1024 2615

#### Graphic Card

##### CONTROL Systems

- XJ10, 1024X768N or 1024X1024I 1695
- XJ12, 1280X1024N or 1024X1024N 1999

##### METHEUS

- UGA1104, 1024X768, 48.8KHz 895
- UGA1224, 1280X1024, 64KHz 1295

##### NEC Graphics Engine

- MGE AT/16, 1024X768N, 16 Color 695
- MGE AT/256, 1024X678N, 256 Color 995

##### Sota Technology

- 340i, 1024X768N, 16 Color 695

##### RENAISSANCE GRX

- Rendition II/16, 1024X768N 995
- Rendition II/256, 1024X768N 1395

##### HERCULES GRAPHIC STATION

- 1024X768, 256 Color 795

##### HP GRAPHICS CARD

- IGC10, 1024X768, TI 34010 850
- IGC20, 1280X1024, TI 34020 1995

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- Model 730GS Flatbed Scanner 925
- Model 830 Flatbed Scanner 1995

#### MITSUBISHI

- Page Scanner with paper feed 745
- Page Scanner with 16 grey 665

#### MICROTEK LAB

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- MSF-300Z 16 mil Col, 256 Gray 1985
- MSF-400GS 400 dpi Gray 2895

### Plotter / Digitizer

#### Plotter

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- 1025, A-E, 8 Pen 4575
- 1044GT, A-E 8895

##### HOUSTON Inst.

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- DMP62, A-E 3999
- Option for Multipen 469

##### IOLINE

- 3500, A-D, 1 Pen 2299
- 3700, A-E, Cut & Roll 2999
- 4000, A-E, 20 ips 3499

#### HP Plotter

- HP7440A, A, 8pens 1095
- HP7475A, A-B, 6 pens 1450
- HP7550A, A-B, 8 pens 2995
- HP7570A, C-D, 8 pens 2995
- HP7575A, A-D, 8 pens 3695
- HP7576A, A-E, 8 pens 4795
- HP7595B, A-E, 8 pens 6695

Come & See Demo for  
CALCOMP, IOLINE Plotter

#### Digitizer

#### SUMMAGRAPHICS

- SummaSketch II 12x12 369
- SummaSketch II Pro 639

#### KURTA

- 12X12, Cur. & Stylus 389
- 12X17, Cur. & Stylus 649

#### CALCOMP

- 12X12, Cur. & Stylus 329
- 12X18, Cur. & Stylus 655
- 18X24, Cur. & Stylus 1325
- 24X36 (2300 Series) 1595
- 36X48 (2300 Series) 1795

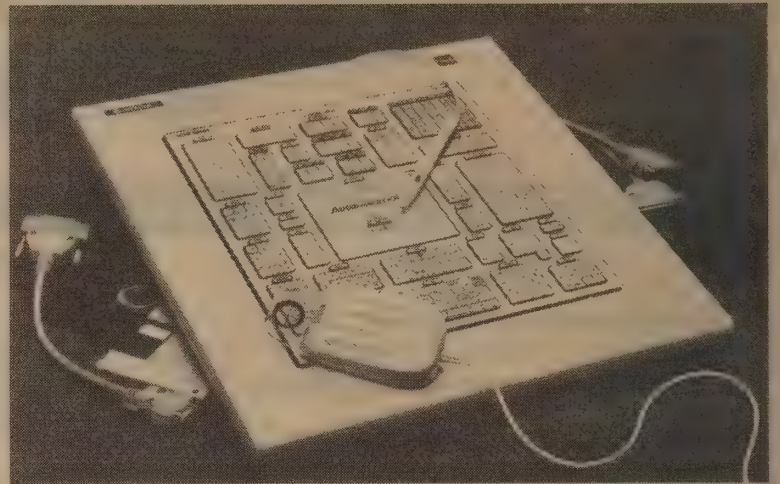
#### HP

- 7060A, 11X11 S-Pro 485



## DIGITAL HITACHI

Puma Plus is an advanced low-cost digitizer system that includes a sixteen button cursor option, 100 percent compatibility with AutoCAD, Windows 3.0 and Mouse Emulator. Designed for use in a wide range of digitizing and menu-pointing applications, Puma Plus runs on IBM PC, XT, AT, PS/2 and compatibles as well as workstations like the Sun SPARCStation and Digital's DecStation. The digitizer system consists of a tablet with a resolution of 1016 lines per inch, a choice of four pointing devices—a stylus pen, and 4-, 12- and 16-button cursors, a power adapter, interface cables and utility software. (\$549) Hitachi America, Ltd., 950 Benicia Ave., Sunnyvale, CA 94086. (408)773-8833.



# HARDWARE



## TOP O' LINE 486 TOWER

Topline Technologies 25MHz standalone tower chassis system can be easily expanded to a multiuser configuration or used as a file server. The Topline 486 includes 8K internal on-chip cache with optional 128K burst mode direct mapped secondary cache. The system board supports use of 256K, 1Mb and 4Mb DRAM for memory configurations up to 64Mb. The base configuration consists of a floor-standing tower that accommodates six half-height drives, one internal full height drive and two exhaust fans. Also included are 4Mb main memory, 200Mb storage, a 1.2Mb 5.25" and 1.44 3.5" floppy drive, EDSI controller with 32K disk cache, 160Mb ESDI HDD and 101-key keyboard. (List price for the base system is \$5395) Topline Technologies, Inc., 330 E. Orangethorpe Ave., Suite C, Placentia, CA 92670. (714)524-6900.

## DATA GENERAL ENTERS 486 MARKET

The Data General Dasher/486-25 is a high performance, multi-purpose, IBM PC AT compatible system designed for flexibility. The Dasher 486-25 can be configured as a server or central station. It can accommodate up to five half-height 5.25" drives, allowing the user to combine multiple hard disks for fault-redundant Novell networking with tape back-ups and online storage of 1Gb. Data General uses a highly reliable Surface-Mount Technology (SMT) CPU board and offers 32-bit memory expansions for separations such as UNIX. This system provides eight expansion slots and includes a dual-floppy disk controller, 16-bit VGA controller card, and two RS-232C serial ports. (\$7995) Data General Corp., 3400 Computer Dr., Westboro, MA 01580. (508)898-4051.





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## HOME

**RH-MAN V.3.3 (176)**-Desktop utility, notepad, etc. Sidekick clone. Very Good!!  
**CITY DESK V.7.1. (177)**-Full featured desktop publishing system. Very Good!!  
**PC-CHECK (253)**-CheckBook & savings account record keeper.  
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**LOTT-O-LUCK (531)**-Be the next big winner in 6/53. Includes database of winning numbers. You never know what will happen!!!  
**EXPRESS CHECK (520)**-Easy to use checkbook program. Prints checks too!!  
**REAL ESTATE ANALYST (255)**-Menu driven program for mortgages, interest, amortizations, analysis between renting or owning, plus more.  
**PC-RECIPE (462)**-Computerize your recipe box. Program will recalculate ingredients.  
**BARTENDER (274)**-Be the hit of the party and mix the best drinks!!  
**CROSSWORD CREATOR V.3.30 (442)**-Create crossword puzzles for fun or learning. Great for Crossword fanatics.  
**SUPERMUSIC JUKEBOX (285)**-70 plus songs to turn your PC into a Jukebox.

## DATABASE



**PC-FILE + (172,173,174)**-Full featured database system with menus, macros, report writer & much more. (3 disk set)  
**DIRDBMS (167)**-Library utility for all your disks.  
**FILE EXPRESS V.4.01 (170,171)**-Menu drive, easy to use database, mail list, report generator, etc. (2 disk set)  
**WAMPUM V.3.1B (175,176)**-Powerful dBase III clone. (2 disk set)  
**ULTRAMIND V.1.0 (424)**-Database generator that will create a customized database for you!  
**P-BASE (465)**-Programmable database management system w/queries & more.

## EDUCATION

**PLAY 'N LEARN (428)**-6 wonderful programs for young children ages 18 months to 4.  
**ABC GAME (430)**-6 games for your tots to play & learn by.  
**FRENCH 1 (425)**-Learn beginning French. Menu driven.  
**ALGEBRA (439)**-Excellent Algebra 1 tutorial.  
**PC-TOUCH (186)**-Learn and practice typing.  
**FUNNELS & BUCKETS (183)**-Great learning game for kids!!  
**ANIMALS (182)**-Math for kids.  
**IQ BUILDER (184)**-Test IQ or build one. Great for teaching.  
**EDUCATE (502)**-Disk jammed w/programs to teach kids math, English, Vocab, etc. Requires Basic.  
**SPANISH (464)**-Spanish tutorial w/quizzes, multiple choice, etc.  
**FRENCH 2 V.1.1 (426)**-After the basics, move to the 2nd level of French.  
**MAP (189)**-Learn about the U.S., geography & Capitals. Great Graphics. Requires Basic.  
**AMY'S FIRST PRIMER (181)**-6 delightful programs to teach the alphabet, numbers, shapes, colors, counting, problem solving, & more. Ages 4-8. Requires Basic.

## BUSINESS

**AS EASY AS V.3.0 (123)**-Powerful Lotus clone.  
**UTILITIES 1-2-3 (121)**-Very useful Lotus utilities with macros, templates, hints and more.  
**E-2 FORM EXEC (529)**-Menu driven form generator & filler powerful features!  
**LEGAL FORMS (134,135)**-Over 100 legal forms that can be easily customized to your needs. (2 disk set)  
**MAIL MONSTER (136)**-Powerful mail list manager. Sort, edit and print labels easily.  
**TIME & MONEY (145)**-Menu driven record system for budgets, interest, etc.  
**EASY PROJECT V.1.2 (143)**-Complete project management system w/automatic scheduling, calculations, charts & more. Dbase compatible.  
**EXPRESS GRAPH (144)**-Business graphing program with different display formats.  
**PC-CALC + (487,488,489)**-Buttonware's very powerful spreadsheet program with graphing, macros, business functions, trig, & more (3 disk set)  
**BUSINESS PLAN (423)**-Complete outline & tutorial for creating a business plan.

## WORD PROCESSING



**WORDPERFECT TOOLS V.3.0 (512)**-For 5.0 only! Great tools for any user!  
**NEW YORK WORD V.2.1. (351)**-Powerful Word Processor with macros, mail merge & more.  
**WPKIDS (348)**-A Word Processor for kids!!!  
**WORDPERFECT 5.0 MACROS (450)**-Disk filled with macros. A must!!  
**PC-STYLE & PC-READ (352)**-Writing analysis program. Helps you write more professionally.  
**POP PERFECT (344)**-Menu & mouse system for WordPerfect 4.2.  
**SPANISH/ENGLISH (453)**-Program to translate any file from English to Spanish or vice versa.  
**WORDPERFECT 5.0 TUTORIAL (485,486)**-WordPerfect tutorial learning system. Become an expert at WordPerfect!!  
**SLIC WORKS V.1.0 (525)**-Powerful spreadsheet, database, word processor & communications program. FrameWork Clone.

## ADULT

**ASTROTIT (110)**-Adult arcade game!!  
**B-WARE (114)**-Adult entertainment trivia, poker, etc.  
**NASTY (116)**-That says it all!!!  
**X-RATED PRINTMASTER (118)**-Let your imagination take the best of you. 1 On 2 (354)-XXX Rated... Fantastic!!  
**X-RATED PRINTSHOP (500)**-X-Rated pics for PrintShop.  
**EROTICA (526)**-Sizzling, true to life animated show!!  
**FANTASY (527)**-Text based Fantasy game. You supply the criteria and the program supplies the Fantasy.  
**INTERSEXION V.1.01 (373)**-X-Rated monopoly game with 5 levels of PLAY!! Includes trivia, jokes & more.  
**BAD-BAD (111)**-Adult adventure game.  
**MAXINE (115)**-Like none before!!! Sit back and watch!!

## GAMES



**LAS VEGAS (501)**-Vegas games of skill.  
**PACMAN GAMES (432)**-Disk filled with great versions of this classic.  
**STRIKER (212)**-Pilot a helicopter and survive... Fast paced.  
**SUPER TREK V.1.0 (213)**-One of the best versions!!  
**WALL STREET (214)**-Stock market simulation using real historical data. Make a million!!  
**TAPPER (216)**-Keep the beer flowin'. Also 2 other games.  
**SKILL (433)**-Disk filled with games of skill.  
**BLACKJACK STRATEGY (201)**-Not just a game. Learn Vegas strategy.  
**CASTAWAYS & S. AMERICA (196)**-2 great adventures games.  
**CENTER FIELDER (197)**-Pinball games played on a Baseball Field.  
**LAWN MOWER (209)**-Mow 6.5 acres in 10 secs. without killing a gopher.  
**SCRABBLE (207)**-An old favorite on computer.  
**UNO (215)**-Excellent computer version.  
**ARCADE FUN #1 (434)**-Disk jammed with arcade games. Requires CGA.  
**ALDO'S ADVENTURE (378)**-Action arcade games of hazards, treasures, ramps, ladders. Requires EGA or VGA.  
**BURGER BLASTER (459)**-Fast paced game. Try to build a perfect burger.  
**EGA-TREK (437)**-One of the very best versions!!! Requires EGA.

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#1

### ADULT

Astrotit, Bad-Bad, Strip, Butterfly, Strip BlackJack, Get Lucky, Intersexion, Maxine, X-Rated Printmaster, 1 on 2.

#2

### BUSINESS

As Easy As, Formtool, Legal Forms, Cmate-GL, PC-File+, Mail Monster, Sliceworks.

#3

### EDUCATION

Amy's First Primer, Animals, Fun with Numbers, Map, Tell Time, Kids Games, ABC Games, Funnels & Buckets, IQ Builder, Educate.

#4

### GAMES

Center Fielder, Global Thermal Nuclear War, BlackJack Strategy, Striker, TurboBall, Aldo's Adventure, Pacman Games, Scrabble, Miniature Golf, Othello.

#5

### HOME

Lott-O-Luck, Finance, PC-Recipe, Loans, Bartender, Aquarium & Instant Paradise, Crossword Creator, The Diet Disk, Supermusic Jukebox, Notepad.

#6

### UTILITIES

PD-Sideways, Baker's Dozen, Automaxx, Directory Scanner, Whereir, DBS-KAT, PC-File III, Disk Labels #1, Format Master, AT Utilities.

## UTILITIES

**PD-SIDEWAYS (292)**-Prints a file sideways on an Epson printer.  
**HP SOFT FONTS (298)**-Laser fonts for HP LaserJet+.  
**AT UTILITIES (308)**-Very useful utilities for your PC/AT.  
**BAKER'S DOZEN (311)**-Buttonware's 12 best utilities.  
**AUTOMAXX V.2.2 (309)**-Menu system & DOS Manager.  
**PC-FILE III V.4.0 (319)**-Jim Button's file management system. Just about the best!!!  
**DIRECTORY SCANNER V.3.0 (314)**-Xtree clone. DOS Shell.  
**PRO-MAN (326)**-Very good hard disk management program.  
**EPSONSET (296)**-Downloadable fonts for your Epson.  
**PRINTMASTER TO PRINTSHOP (237)**-Convert PM to PS or vice versa.  
**LASERJET FONTS #2 (376)**-Contains 10 point Roman & Helvetica fonts in bold & italic. Includes downloader program.

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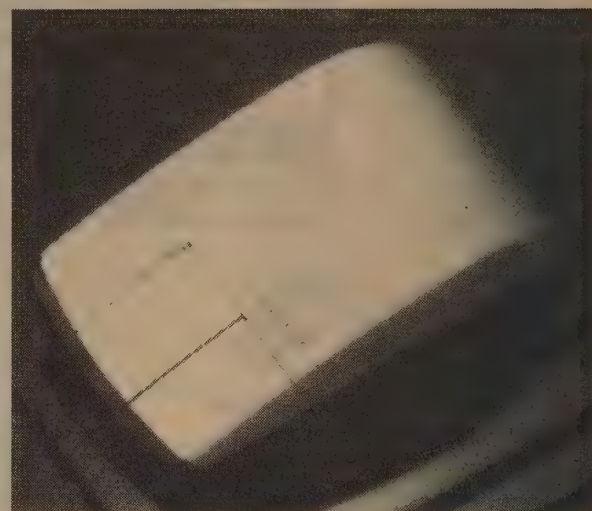
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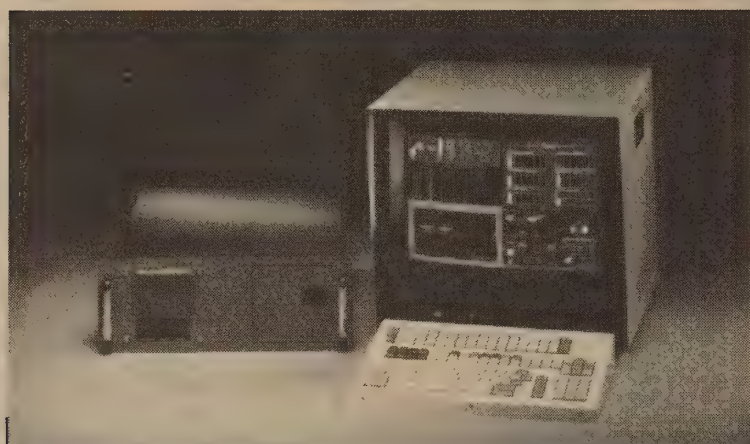
# NEW PRODUCT BUYERS GUIDE

## ZEN AND THE ART OF MICE

Zen Mouse, from Zeny Computer Systems, uses a new two-wheel direct drive system that significantly controls maintenance problems associated with conventional ball mice. Its tough urethane wheels help push away dirt and debris, allowing smooth tracking on virtually any flat surface, at any angle. This button mouse is compatible with Microsoft, Logitech and MSC mice. It is available in cordless or corded models for IBM PC, PS/2, and compatibles. (Cordless \$129, Corded, \$89) Zeny Computer Systems, Inc., 4033 Clipper Ct., Fremont, CA 94538. (415)659-0386.



# HARDWARE



## INDUSTRIAL STRENGTH PERFORMANCE FROM AYDIN

Aydin Controls, a leading US manufacturer of Display Graphics equipment, has introduced a new, high performance workstation, the Model 4340. It is an industrial-style, rackmount workstation, ideal for light manufacturing environments. Included as standard features in the 4340 is a 20MHz Intel 386SX processor, 1Mb system memory, eight expansion slots, one 5.25" 1.2Mb floppy drive, one parallel and two parallel ports, VGA graphics card and 15" or 19" rackmountable Aydin VGA monitors. Aydin Controls, Inc., 414 Commerce Dr., Fort Washington, PA 19034. 1-800-366-8889.

| 486-25 <sub>MHz</sub> SYSTEM                                                                                                                                                                                                                  | 386-33 <sub>MHz</sub> SYSTEM                                                                                                                                                                                                                 | 386-25 <sub>MHz</sub> SYSTEM                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 64K Cache RAM</li> <li>• 1 MB RAM Exp. to 16 MB</li> <li>• 1.2 MB or 1.44 MB DR.</li> <li>• 1:1 Hard Floppy Controller</li> <li>• 2 Serial 1 Paraller 1 Game</li> <li>• Maxi 101 Keyboard</li> </ul> | <ul style="list-style-type: none"> <li>• 64K Cache RAM</li> <li>• 1 MB RAM Exp. to 8 MB</li> <li>• 1.2 MB or 1.44 MB DR.</li> <li>• 1:1 Hard Floppy Controller</li> <li>• 2 Serial 1 Paraller 1 Game</li> <li>• Maxi 101 Keyboard</li> </ul> | <ul style="list-style-type: none"> <li>• 1 MB RAM Exp. to 8 MB</li> <li>• 1.2 MB or 1.44 MB DR.</li> <li>• 1:1 Hard Floppy Controller</li> <li>• 2 Serial 1 Paraller 1 Game</li> <li>• Maxi 101 Keyboard</li> </ul>      |
| <b>\$2099</b>                                                                                                                                                                                                                                 | <b>\$1179</b>                                                                                                                                                                                                                                | <b>\$979</b>                                                                                                                                                                                                             |
| 386-SX SYSTEM                                                                                                                                                                                                                                 | 286-16 <sub>MHz</sub> SYSTEM                                                                                                                                                                                                                 | 286-12 <sub>MHz</sub> SYSTEM                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• 1 MB RAM Exp. to 4 MB</li> <li>• 1.2 MB or 1.44 MB DR.</li> <li>• 1:1 Hard Floppy Controller</li> <li>• 2 Serial 1 Paraller 1 Game</li> <li>• Keytronic 101 Keyboard</li> </ul>                      | <ul style="list-style-type: none"> <li>• 1 MB RAM Exp. to 4 MB</li> <li>• 1.2 MB or 1.44 MB DR.</li> <li>• 1:1 Hard Floppy Controller</li> <li>• 2 Serial 1 Paraller 1 Game</li> <li>• Keytronic 101 Keyboard</li> </ul>                     | <ul style="list-style-type: none"> <li>• 1 MB RAM Exp. to 4 MB</li> <li>• 1.2 MB or 1.44 MB DR.</li> <li>• 1:1 Hard Floppy Controller</li> <li>• 2 Serial 1 Paraller 1 Game</li> <li>• Keytronic 101 Keyboard</li> </ul> |
| <b>\$699</b>                                                                                                                                                                                                                                  | <b>\$539</b>                                                                                                                                                                                                                                 | <b>\$439</b>                                                                                                                                                                                                             |
| Mono Monitor & Card . . . . . \$99<br>VGA Monitor & Card . . . . . \$379                                                                                                                                                                      |                                                                                                                                                                                                                                              | Hard Disk<br>40 / 100 / 200 MB . . . \$259 / 489 / 799                                                                                                                                                                   |

# DATA-ONE<sup>INC.</sup>

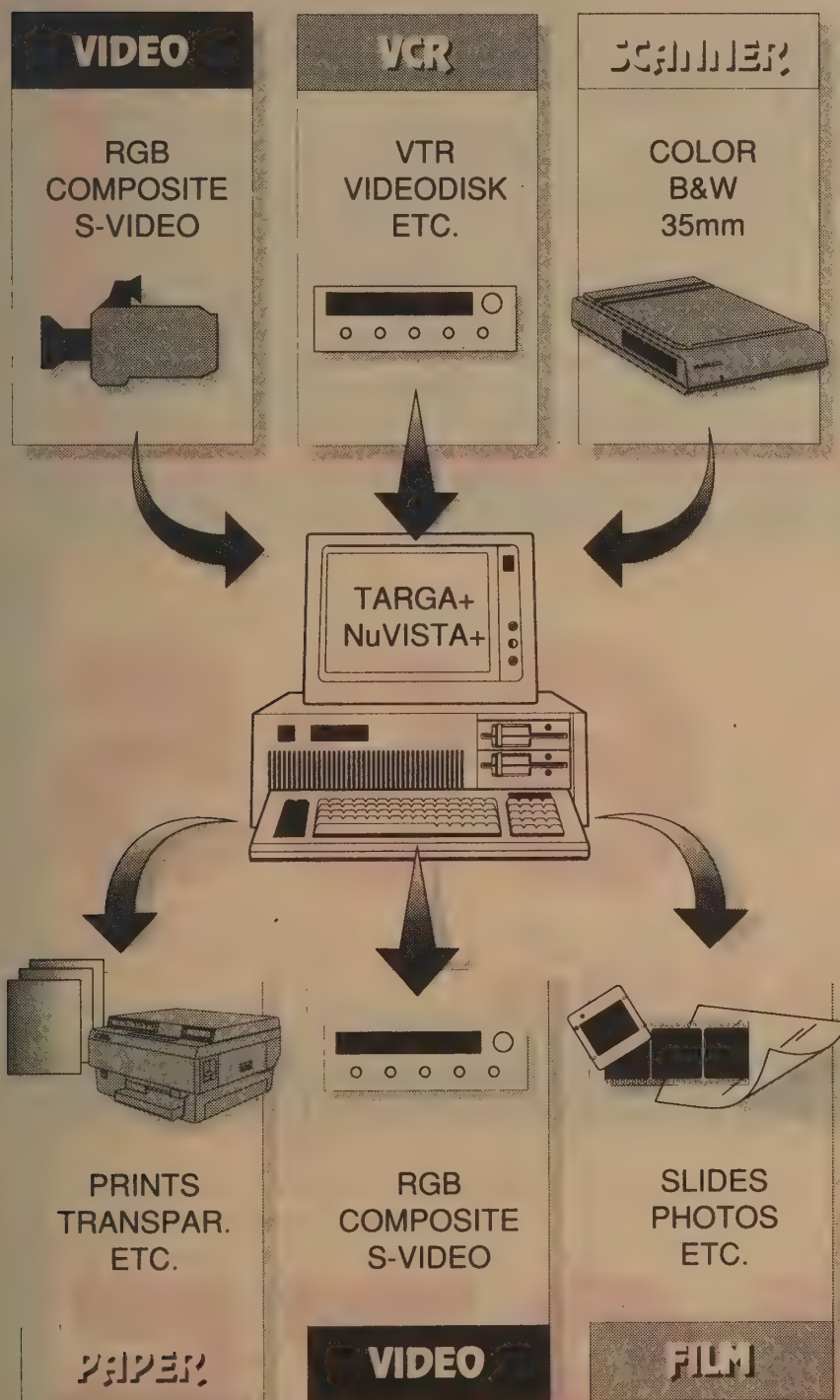
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# Sensational New Products!

## TARGA+ PC

## NuVISTA+ Mac



### Special Features...

**Digital Chroma Keyer:** The TARGA+ and NuVISTA+ are the first videographics cards to offer digital chroma keying, a stencil-like process in which all occurrences of a defined color are replaced by a live video signal. For example, television weather reports use digital chroma keying to project weather maps behind the meteorologist. This sophisticated performance, even preserves shadows!

**Digital Linear Keyers:** Linear keying is the process of blending or replacing a specific portion of a video signal with another signal. It is used to insert live or still video, with soft or smooth edges, and to create special effects such as blending, mixing, fading and dissolving between images. Select from 256 levels of transparency between video and graphics!

**Image Capture:** The TARGA+ and NuVISTA+ offer real time image capture, with software selectable color depth and resolution. From 256 to 16.7 million displayable colors. 512 x 482, 640 x 480, 756 x 486, 1024 x 768. Your choice!

**Broadcast Quality Encoder and Decoder:** The TARGA+ and NuVISTA+ introduce Truevision's third-generation video encoder/decoder technology on-board. The encoder/decoder allows you to input and output composite video, S-Video (Super VHS, Ed Beta) and RGB in either NTSC or PAL formats.

**Advanced Genlock:** Genlock enables the TARGA+ and NuVISTA+ to synchronize, or lock to, a broad range of video sources. Design improvements yield a more robust genlock capability which allows you to lock to an even greater spectrum of video equipment, including VCRs (even in still-frame mode), video disk players and still-frame cameras.

**Microchannel Version of TARGA+:** This new board allows any PS/2 operating under DOS to utilize the TARGA+ capabilities, and access over 300 TARGA software programs!

**Windows 3.0 Support:** A Windows 3.0 driver will ship with all TARGA+ boards.

**XCMD and XOBJ support:** NuVista+ ships with Hypercard 2.0 XCMDs and Director 2.0 XOBJS. These externals give you maximum flexibility in creating animations, presentations, and video productions. With these XCMDs and XOBJS, you can control virtually every NuVISTA+ feature!

**Color Cycling:** Both the TARGA+ and the NuVISTA+ have look-up-tables so 8 bit color cycling effects can be used. Excellent for quick real time effects like showing water moving through pipes, lightning on a weather map, or just giving attention to a specific area of your graphic.

*Call for free demonstration*

## VisionArts

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Computer Graphics Products

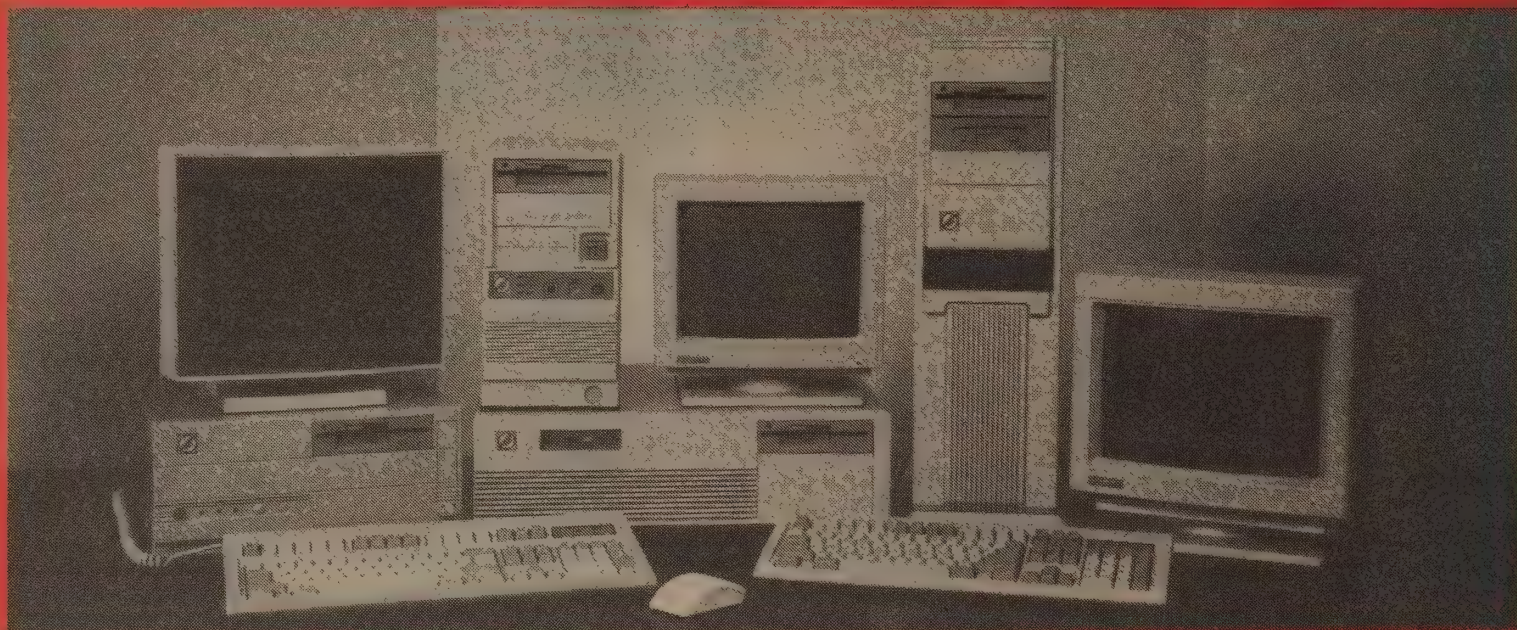


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## Precision 286-12

- . Highest performance true zero wait state running at 12Mhz (Landmark = 16.1Mhz)
- . 1MB DRAM memory included.
- . Small foot-print AT case w/ 200W power supply.
- . IDE (Integrated/Embedded) dual hard/floppy controller.
- . 1.2MB high density floppy drive & **40MB** (28ms) IDE hard disk drive.
- . High quality mechanical keyswitch, tactile click 101 key keyboard.
- . High resolution **monochrome** graphics card with parallel printer port.
- . High resolution **monochrome** graphics monitor.

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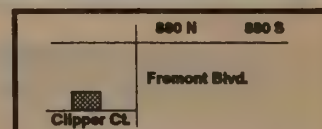
## Precision 386SX

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- . 1MB DRAM memory included.
- . Small foot-print AT case w/ 200W power supply.
- . RLL (Run Length Limited) dual hard/floppy controller.
- . 1.2MB high density floppy drive & **66MB** (24ms) RLL hard disk drive.
- . AT I/O card (2 serial, 1 parallel, 1 game ports.)
- . High quality mechanical keyswitch, tactile click 101 key keyboard.
- . High resolution **VGA** 16 bit graphics card 256KB graphics buffer.
- . High resolution 14" **VGA** graphics monitor.

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# COMPUTER TECHNOLOGY

## **Precision 486-25**

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- Intel 486-25 CPU Ver. B6 with built-in math coprocessor.
- Internal 8KB cache memory upgradable to 128KB & **4MB** DRAM on board.
- Solid built Upright case w/ 250W power supply.
- 1:1 Interleaving MFM dual hard/floppy controller.
- 1.2MB high density floppy drive (1.2MB/360KB compatible.)
- AT I/O card (2 serial, 1 parallel, 1 game ports.)
- High quality mechanical keyswitch, tactile click 101 key keyboard.
- High resolution **Super VGA** graphics card with 1024X768 resolution.
- High resolution 14" **VGA** 1024X768 graphics monitor.

# 2495

## **The Best's Just Got Better.**

## **Precision 386-33**

- Highest performance true zero wait state running at 33Mhz (Landmark = 55.0Mhz.)
- Two way set associative 64KB cache memory & 1MB DRAM memory included.
- Solid built Upright case w/ 250W power supply.
- IDE (Integrated/Embedded) dual hard/floppy controller.
- 1.2MB high density floppy drive (1.2MB/360KB compatible.)
- **100MB** (18ms) IDE hard disk drive.
- AT I/O card (2 serial, 1 parallel, 1 game ports.)
- High quality mechanical keyswitch, tactile click 101 key keyboard.
- High resolution **SVGA** 16 bit graphics card 512KB graphics buffer.
- High resolution 14" **SVGA** 1024x768 graphics monitor.

# 2195

## **The Best's Just Got Better.**

## **Precision 386-25**

- Highest performance true zero wait state running at 25Mhz (Landmark = 36.0Mhz.)
- 1MB DRAM memory included.
- Conventional Standard AT case w/ 230W power supply.
- IDE (Integrated/Embedded) dual hard/floppy controller.
- 1.2MB high density floppy drive (1.2MB/360KB compatible.)
- **80MB** (18ms) IDE hard disk drive.
- AT I/O card (2 serial, 1 parallel, 1 game ports.)
- High quality mechanical keyswitch, tactile click 101 key keyboard.
- High resolution **VGA** 16 bit graphics card 256KB graphics buffer.
- High resolution 14" **VGA** graphics monitor.

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MathCAD 2.5...**\*242**

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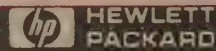
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HL6905TK 1280x1024 (N)...**\*2105**  
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Emulation...**\*1485**  
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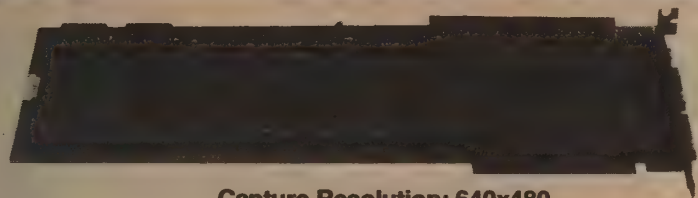
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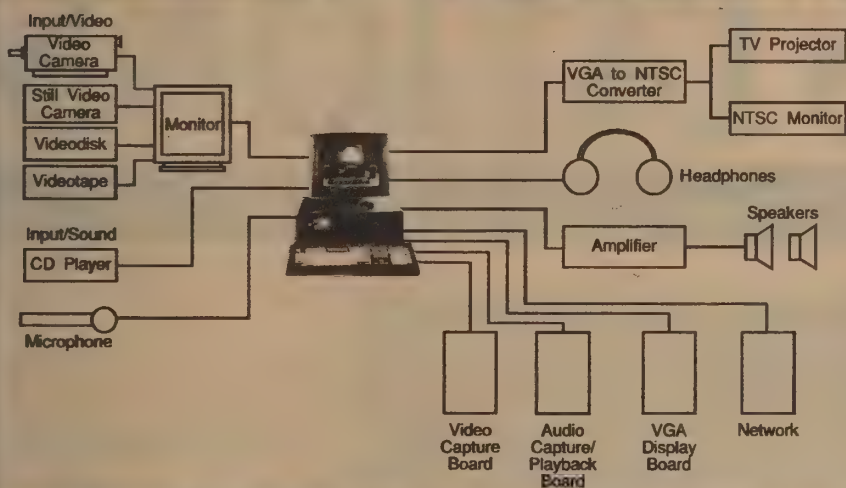
**Colors:** 65,536 Acquired (16 bits/pixel) 256 colors from a palette of 65,536 or 64 gray scale levels displayed

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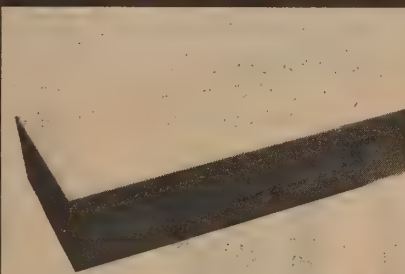
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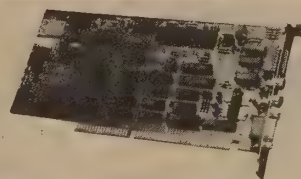
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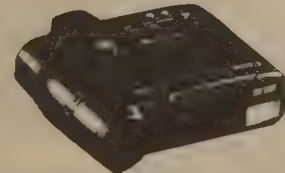


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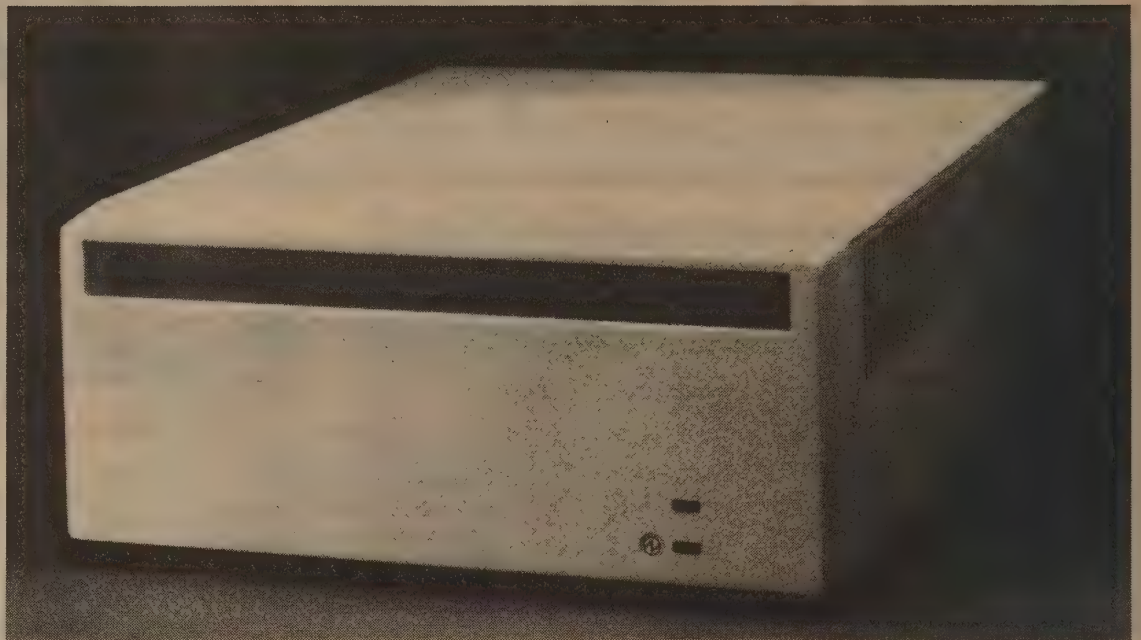
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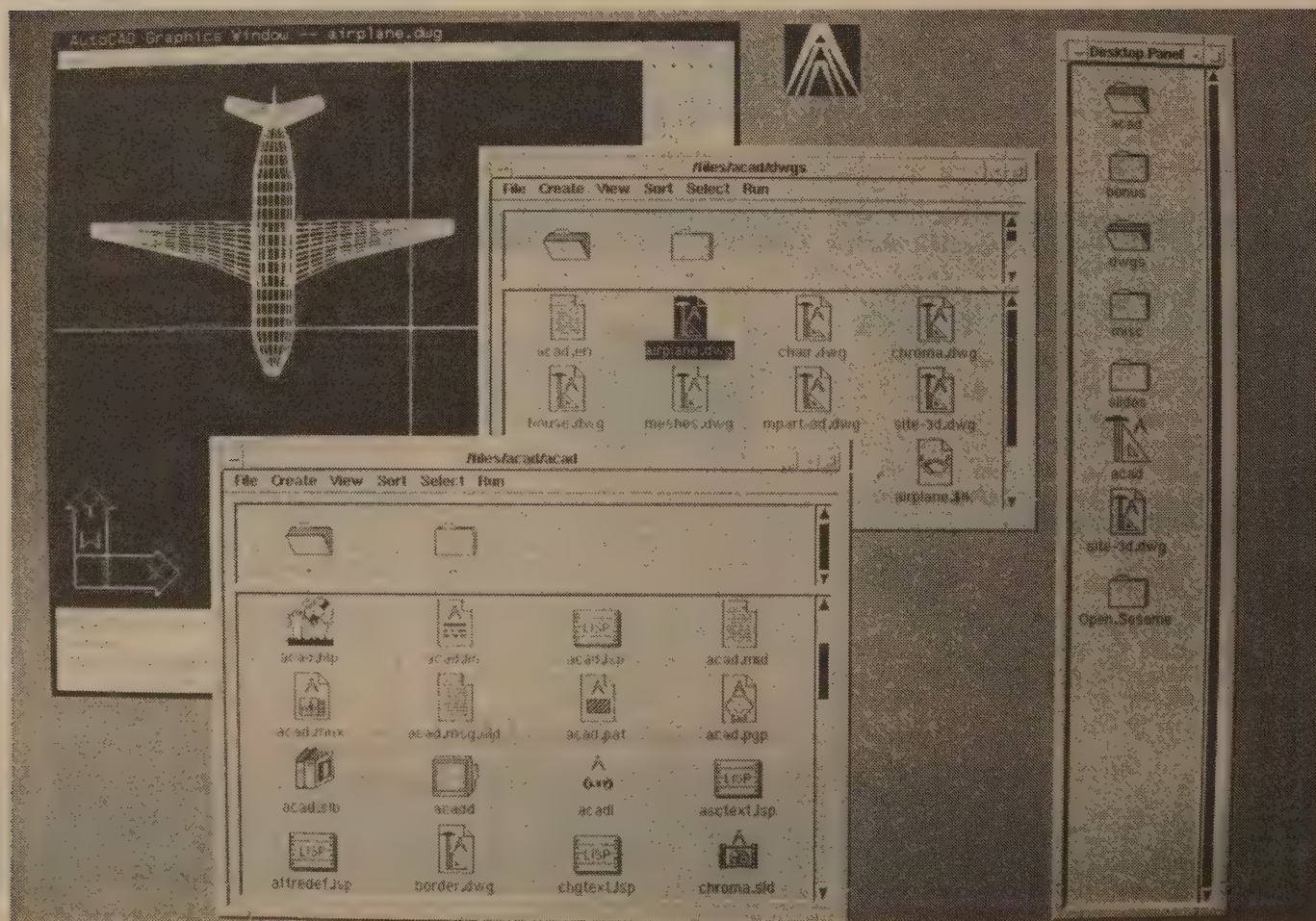
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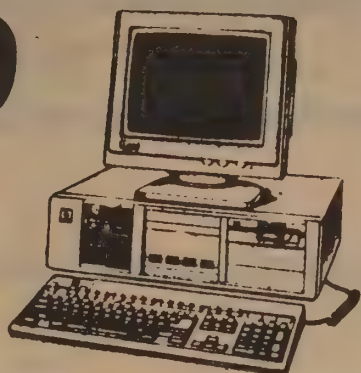
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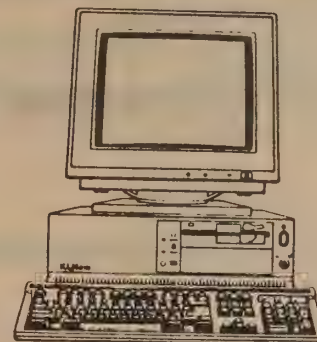
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| 386-16 SX.....                          | 19.....  | \$625  |
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| <b>386 Mother Boards:</b>                                                      |        |
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| DTC 7287 1:1 RLL AT HD/FDD (with Cables).....            | \$88  |
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| TSL 1:1 MFM AT 2HD/2FDD.....                             | \$65  |
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| <b>AX12286(286/12, 512K)</b>       |                            |                        |                        |                                        |                                         |                                         |                       |
| BasicSystem,Desktop                | \$399                      | \$489                  | \$539                  | \$639                                  | \$789                                   | \$849                                   | \$749                 |
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| w/ 80 MB                           | \$949                      | \$1,039                | \$1,089                | \$1,189                                | \$1,339                                 | \$1,399                                 | \$1,299               |
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| BasicSystem,Desktop                | \$649                      | \$739                  | \$789                  | \$889                                  | \$1,039                                 | \$1,099                                 | \$999                 |
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| w/ 80 MB                           | \$1,099                    | \$1,189                | \$1,239                | \$1,339                                | \$1,489                                 | \$1,549                                 | \$1,449               |
| <b>SX20386 (386SX/20)</b>          |                            |                        |                        |                                        |                                         |                                         |                       |
| BasicSystem,Desktop                | \$749                      | \$839                  | \$889                  | \$989                                  | \$1,139                                 | \$1,199                                 | \$1,099               |
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| w/ 65 MB                           | \$1,099                    | \$1,189                | \$1,239                | \$1,339                                | \$1,489                                 | \$1,549                                 | \$1,449               |
| w/ 80 MB                           | \$1,199                    | \$1,289                | \$1,339                | \$1,439                                | \$1,589                                 | \$1,649                                 | \$1,549               |
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| <b>CX25386 (386/25, 64K cache)</b> |                            |                        |                        |                                        |                                         |                                         |                       |
| Basic System, Med Vertical         | \$1,099                    | \$1,189                | \$1,239                | \$1,339                                | \$1,489                                 | \$1,549                                 | \$1,449               |
| w/ 65 MB                           | \$1,449                    | \$1,539                | \$1,589                | \$1,689                                | \$1,839                                 | \$1,899                                 | \$1,799               |
| w/ 80 MB                           | \$1,549                    | \$1,639                | \$1,689                | \$1,789                                | \$1,939                                 | \$1,999                                 | \$1,899               |
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| Basic System, Full Vertical        | \$1,249                    | \$1,339                | \$1,389                | \$1,489                                | \$1,639                                 | \$1,699                                 | \$1,599               |
| w/ 65 MB                           | \$1,599                    | \$1,689                | \$1,739                | \$1,839                                | \$1,989                                 | \$2,049                                 | \$1,949               |
| w/ 80 MB                           | \$1,699                    | \$1,789                | \$1,839                | \$1,939                                | \$2,089                                 | \$2,149                                 | \$2,049               |
| w/ 100 MB                          | \$1,749                    | \$1,839                | \$1,889                | \$1,989                                | \$2,139                                 | \$2,199                                 | \$2,099               |
| <b>CX25486 (486/25)</b>            |                            |                        |                        |                                        |                                         |                                         |                       |
| Basic System, Full Vertical        | \$2,699                    | \$2,789                | \$2,839                | \$2,939                                | \$3,089                                 | \$3,149                                 | \$3,049               |
| w/ 80 MB                           | \$3,149                    | \$3,239                | \$3,289                | \$3,389                                | \$3,539                                 | \$3,599                                 | \$3,499               |
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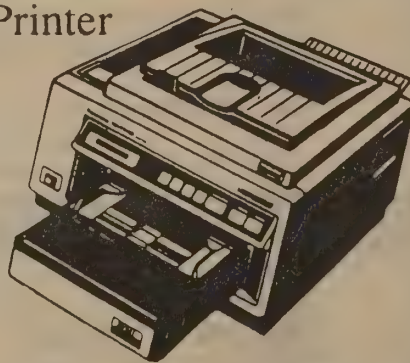
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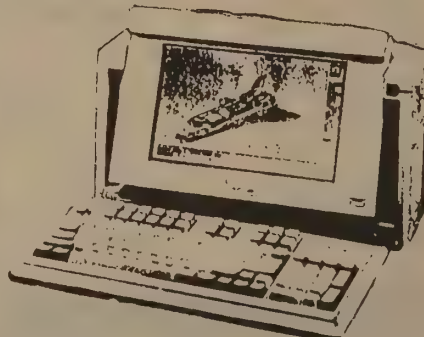


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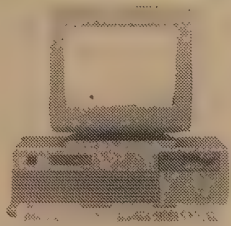
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## OXFORD 386-33 CACHE

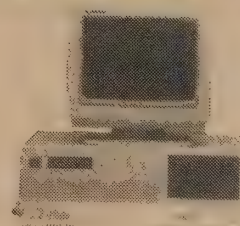
- Intel 32 Bit Processor-33MHz
- 64K Cache
- 1 MB RAM
- 40MB Hard Disk, 28ms
- Serial, Parallel, & Clock
- Monographic Card & Monitor
- Enhanced Keyboard



**\$1650**

## OXFORD 286/12

- 80286-12MHz CPU
- O Wait State
- 640K RAM
- 1.2MB Drive
- 40MB Hard Disk, 28ms
- Serial, Parallel, & Clock
- Monographic Card & Monitor
- Enhanced Keyboard



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## OXFORD 386SX/16

- 80386SX-16 MHz CPU
- 1MB RAM
- 1.2 MB Floppy Drive
- 40MB Hard Disk, 28ms
- Serial Parallel, & Clock
- Monographic Card & Monitor
- Enhanced Keyboard

**\$1099**

## OXFORD 386SX-20

- 80386SX-20 MHz CPU
- 1MB RAM
- 40 MB Hard Disk, 28ms
- Serial, Parallel, & Clock
- Monographic Card & Monitor
- Enhanced Keyboard

**\$1199**

## OXFORD 386/25 CACHE

- INTEL 32 Bit Processor-25MHz
- 64K Cache • 1 RAM
- 1.2 MB Floppy
- 40 MB Hard Disk, 28ms
- Serial, Parallel, & Clock
- Monographic Card & Monitor
- Enhanced Keyboard

**\$1525**

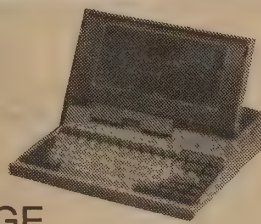
## HARD DRIVES

### FOR IBM/MAC

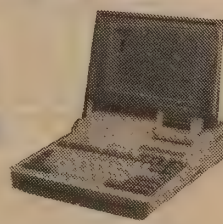
- 40 MB WESTERN DIGITAL...\$299
- SEAGATE .....CALL
- KALOK .....CALL
- CONNER .....CALL
- CDC .....CALL
- MICROPOLIS .....CALL
- MINISCRIBE .....CALL

## LAPTOPS

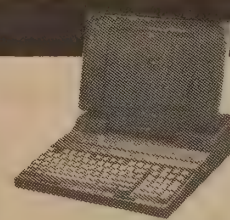
- TOSHIBA
- ZENITH
- HYUNDAI
- MITSUBISHI
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T1000SE  
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T1600  
CALL



**TOSHIBA**  
T3200  
CALL

## COMPUTERS



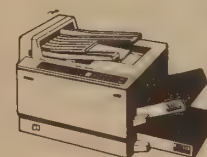
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- AMS FAX CARD .....\$169
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- AST
- VIDEO 7
- PARADISE
- WESTERN DIGITAL
- EVEREX
- LOGITECH
- MICROSOFT
- BORLAND
- WORD PERFECT
- MYLEX
- TEAC
- TOSHIBA

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- PANASONIC Mdl.1124 .....\$295
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**STEP 486, 386**

**TEMPO 386, 286**

**486, 386**

**VLSI 286**

**SEE SYSTEMS SECTION 19**

**1. 8087, 287, 387**

|                   |                   |
|-------------------|-------------------|
| <b>CYRIX</b>      |                   |
| 83D87-16/20/25/33 | \$260/285/385/440 |
| <b>INT</b>        |                   |
| 2C87-8/10/12/20   | 175/185/215/255   |
| 3C87-SX16/DX16    | 265               |
| 3C87-20/25/33     | 285/385/440       |
| <b>INTEL</b>      |                   |
| 8087-4/8/10       | 80/115/140        |
| 80287-6/8/10      | 125/175/195       |
| 80387-SX16/DX16   | 285               |
| 80387-20/25/33    | 345/435/545       |

**2. 1 Meg, 256K, 64K**

|                   |        |
|-------------------|--------|
| <b>DRAM</b>       |        |
| 1Meg x 1-8        | \$4.55 |
| 256K x 8/10/12/15 | 1.40   |
| 256K x 4-8        | 5.00   |
| 64K x 10/12/15    | 1.45   |
| 64K x 4-10        | 2.50   |
| <b>SRAM</b>       |        |
| 4 Meg x 9-8       | 265    |
| 1 Meg x 9-8/10    | 48     |
| 256K x 9-8        | 15     |
| <b>SIPP</b>       |        |
| 1 Meg x 9-8/10    | 50     |
| 256K x 9-8/10     | 16     |

**3. BOOKS**

All New Books 15% off

Microsoft Press  
Osborne MacGraw-Hill Press  
Peachpit Press (Desktop Publishing)

**4. CASES**

|                         |      |
|-------------------------|------|
| AT Jr Case for XT       | \$30 |
| Baby AT w/ Power        | 105  |
| AT Case                 | 50   |
| Baby Tower w/ Power     | 115  |
| Mid Baby Tower w/ Power | 145  |
| Tower AT w/ 220W Power  | 175  |

**5. CONTROLLERS w/cables**

|                                      |             |
|--------------------------------------|-------------|
| <b>ADAPTEC</b>                       |             |
| 2322B 1:1 ESDI                       | \$195       |
| <b>DTC</b>                           |             |
| 3280 SCSI                            | 135         |
| 6280 1:1 ESDI                        | 145         |
| 7280 1:1 MFM                         | 85          |
| 7287 1:1 RLL                         | 99          |
| <b>DTK</b>                           |             |
| Floppy Controller (XT)               | 18          |
| Controller 1.2 & 1.44 (XT, AT)       | 40          |
| IDE Controller                       | 35          |
| IDE w/ AT I/O (P, S, G)              | 69          |
| <b>FUTURE DOMAIN SCSI Controller</b> |             |
| TMC 850 for XT (H only)              | 85/145 kit  |
| TMC 875 for XT (F & H)               | 135/215 kit |
| TMC 860 for AT (H only)              | 125/195 kit |
| TMC 885 for AT (F & H)               | 145/265 kit |
| TMC 1660 for AT (H only)             | 165/295 kit |
| TMC 1680 for AT (F & H)              | 195/315 kit |
| <b>WESTERN DIGITAL</b>               |             |
| Gen Card (XT)                        | 55          |
| 1003V 2:1 MFM                        | 85          |
| 1006V 1:1 MFM                        | 99          |
| 1006SR 1:1 RLL                       | 115         |
| 1007 SE2 ESDI                        | 165         |

**6. DRIVES**

|                           |      |
|---------------------------|------|
| <b>TEAC</b>               |      |
| 360K                      | \$60 |
| 720K 3 1/2" w/ frame      | 65   |
| 1.2MB 5 1/4"              | 70   |
| 1.44 MB 3 1/2" w/ frame   | 70   |
| <b>CONNER (IDE)</b>       |      |
| CP-3044 40 MB 25ms        | 325  |
| CP-3184 80MB 25ms         | 495  |
| CP-3104 100MB 25ms        | 515  |
| CP-2104 200MB 19ms        | 825  |
| <b>MAXTOR</b>             |      |
| 1140-140 (119)MB 25ms FMF | 925  |

|                              |      |
|------------------------------|------|
| 4170-170 (167)MB 14ms ESDI   | 895  |
| 4380-380 (338)MB 16ms ESDI   | 1295 |
| 8760-760 (676)MB 16ms ESDI   | 1995 |
| 200F-200MB 15ms SCSI         | 795  |
| <b>MICROSCIENCE</b>          |      |
| HH1090 80MB 25ms MFM         | 395  |
| <b>NEC</b>                   |      |
| D3142 40MB 28ms MFM          | 305  |
| D5655 100MB 18ms ESDI        | 620  |
| D3661 150MB 18ms ESDI        | 720  |
| <b>SEAGATE</b>               |      |
| ST-251-1 40MB 28ms MFM       | 245  |
| ST-4097 80MB 28ms MFM        | 555  |
| ST-157A 40MB 28ms IDE        | 245  |
| ST-277N 64MB 28ms SCSI       | call |
| ST-296N 84MB 28ms SCSI       | call |
| ST-1239A 230MB 15ms IDE 3.5" | 765  |

**7. DTK CARDS**

|                                     |      |
|-------------------------------------|------|
| Monographic w. Printer              | \$38 |
| 640K RAM Card (XT)                  | 35   |
| Hexa I/O (S, P, G, Ck, Cont) (XT)   | 48   |
| Penta I/O (S, P, G, Ck) (XT)        | 39   |
| AT I/O (S, P, G)                    | 35   |
| Mini AT I/O (S, P)                  | 30   |
| AT I/O w/ IDE Controller            | 69   |
| Serial Card (XT)                    | 19   |
| Printer Card                        | 19   |
| Game Card                           | 19   |
| Controller (see controller section) |      |

**8. KEYBOARDS**

|                       |      |
|-----------------------|------|
| <b>NORTHGATE OMNI</b> |      |
| 1011/101N             | \$69 |
| 102                   | 79   |
| Plus                  | 99   |
| Ultra                 | 119  |
| <b>OTHERS</b>         |      |
| KEYTRONIC 101         | 50   |
| MAXI 101              | 50   |
| MITSUMI 101           | 45   |

**9. LAPTOPS**

|                                    |         |
|------------------------------------|---------|
| <b>CANON</b>                       |         |
| BJ-10e (Bubble jet printer, 4.5lb) | \$329   |
| See Printers Section 17            |         |
| <b>PANASONIC</b>                   |         |
| CF-150B Backlit LCD                |         |
| 720K FD w/ carrying case           | 595     |
| Battery for CF-150B                | 29      |
| CF-170 8086 Backlit LCD            |         |
| 1.44 FD, 20MB HD                   | call    |
| CF-270 286-16 VGA (640x480)        |         |
| 1.44FD, 20MB HD                    | call    |
| <b>TOSHIBA</b>                     |         |
| T1000SE                            | 1095    |
| T1000XE                            | 1455    |
| T1200XE                            | 2085    |
| T1600/20                           | 2195    |
| T1600/40                           | 2495    |
| 2400 int modem                     | 259     |
| 1MB/ 2MB for T1000SE/XE            | 250/360 |

**10. LOGITECH**

|                                 |         |
|---------------------------------|---------|
| C-9 Serial/Bus Mouse            | \$69/75 |
| C-9 Serial Mouse w/ Windows 3.0 | 130     |
| Catchword                       | 110     |
| Dexxa serial mouse              | 38      |
| Scanman Plus                    | 169     |
| Trackman                        | 85      |

**11. MEMORY CARDS**

|                               |      |
|-------------------------------|------|
| <b>EVEREX</b>                 |      |
| Mini Magic (XT 2MB, EMS)      | \$65 |
| Ram 3000 Deluxe (AT 3MB, EMS) | 84   |
| Ram 8000 (AT 8MB, EMS)        | 165  |
| Ram 10000 (AT 10MB, EMS)      | 125  |
| Ram II 4000 (PS/2-5,6,7,80)   | 215  |

**12. MODEMS & FAX**

|                            |         |
|----------------------------|---------|
| <b>EVEREX</b>              |         |
| Evercom II (1200 Baud Int) | \$51    |
| Evercom 2400 Baud Int/MNP5 | 115/145 |

|                                     |         |
|-------------------------------------|---------|
| Evercom 2400 Baud Ext MNP5          | 185     |
| Fax Modem Int 2400/9600 w/MNP5      | 239     |
| Pocket Modem for Laptop 2400 & MNP5 | 215     |
| <b>HAYES</b>                        |         |
| 9600 V.42 & V.25 BIS                | 665     |
| Personal Modem 2400                 | 165     |
| SmartModem 2400 Ext                 | 385     |
| SmartModem 2400B Int                | 245     |
| <b>VIVA (Computer Peripherals)</b>  |         |
| 2400 Ext IBM/APPLE                  | 115/125 |
| 2400 Ext w/ send Fax                | 125     |
| 2400 Ext w/ MNP5 (IBM/APPLE)        | 145     |

**13. MONITORS**

|                                     |       |
|-------------------------------------|-------|
| <b>ADI</b>                          |       |
| 14" mono amber/paperwhite           | \$119 |
| 14" VGA mono (720x400)              | 125   |
| 14" VGA (640x480, .31)              | 315   |
| 14" VGA (1024x768, .28)             | 375   |
| <b>HYUNDAI</b>                      |       |
| 12" mono                            | 70    |
| 14" 402B (720x400, .39) VGA         | 265   |
| <b>IMPRESSION</b>                   |       |
| 14" CM414E (1024x768, .28) VGA      | 345   |
| <b>MATSUSHITA</b>                   |       |
| ViewPerfect 2 (640x480, .29)        | 319   |
| ViewPerfect 3 (1024x768, .29) Int   | 445   |
| ViewSonic 4 (1024x768, .29) Int     | 375   |
| ViewSonic 5 (1024x768, .25) Non-Int | call  |
| <b>MITSUBISHI (w/ base)</b>         |       |
| 16" HL6605ATK (1280x1024) Non-Int   | 1095  |
| 20" HA3905ADK (1024x768)            | 1550  |
| 20" HJ6905 (1280x1024, .31) Non-Int | 1795  |
| 14" 3D (1024x768) Int               | 595   |
| 16" 4D (1024x768) Non-Int           | 1175  |
| 20" 5D (1280x1024)                  | 2385  |
| <b>PANASONIC</b>                    |       |
| 14" 1381 (1024x768, .28)            | 395   |
| 15" M1500AT (1280x960) 126dpi       |       |
| paperwhite w/ VGA card              | 1050  |
| <b>QUME</b>                         |       |
| 830 (640x480, .41)                  | 265   |
| 835 (1024x768, .28) Int             | 375   |
| <b>RELYSIS</b>                      |       |
| 15" RE1520 (1024x768, .31) Non-Int  | 585   |
| <b>SEIKO</b>                        |       |
| CM1440 (1024x768, .26)              | 475   |
| CM1450 (1024x768, .26) Non-Int      | 645   |
| <b>SONY</b>                         |       |
| 1304 (1024x768) Non-Int             | 669   |

**14. MOTHERBOARDS**

|                              |         |
|------------------------------|---------|
| <b>DTK</b>                   |         |
| 8088 XT-10                   | \$69    |
| 286-12                       | 169     |
| 386SX-16/20                  | 355/495 |
| 386-25                       | 895     |
| 386-33                       | 1026    |
| <b>ECS</b>                   |         |
| 286-12/16 (VLSI)             | 125/185 |
| 386SX-16                     | 345     |
| 386-25 (no cache)            | 625     |
| 386-33 64K cache             | 925     |
| <b>MICRONICS</b>             |         |
| 386-25 (no cache)            | 755     |
| 386-25 64K cache             | 925     |
| 386-33 64K cache             | 1045    |
| 486-25 64K cache             | 1795    |
| 486-33 64K cache             | 3695    |
| <b>MICRONICS ACCESSORIES</b> |         |
| 4MB Piggy Back (to 8MB)      | 595     |
| 16MB Memory Card             | 150     |
| 32K 2-Way cache              | 55      |
| 387 Adaptor                  | 65      |
| BIOS Award/Phoenix (386)     | 60/pair |
| Keyboard Chip                | 30      |
| <b>OPTI</b>                  |         |
| 386-25 w/o cache             | 560     |
| 386-25 w/ cache              | 660     |
| 386-33 w/ cache              | 820     |

**15. Panasonic**  
Office Automation OA

|                                           |       |
|-------------------------------------------|-------|
| <b>LAPTOP</b>                             |       |
| CF 150B w/ carrying bag                   | \$595 |
| Battery                                   | 29    |
| CF 170 8086 Backlit LCD                   |       |
| 1.44 FD, 20MB HD                          | call  |
| CF 270 286-16 VGA (640x480)               |       |
| 1.44 FD, 20MB HD                          | call  |
| <b>MONITOR</b>                            |       |
| 14" 1381 (1024x768, .28)                  | 395   |
| 15" M1500AT (1280x960) 126dpi             |       |
| paperwhite w/ VGA card                    | 1050  |
| <b>PRINTER</b>                            |       |
| 1180 w/ cable                             | 149   |
| 1191 w/ cable                             | 225   |
| 1124 w/ cable                             | 269   |
| 1624 w/ cable                             | 359   |
| 4420 w/ cable                             | 775   |
| 1MB Memory Card                           | 199   |
| Developer KX-PDP2                         | 95    |
| Drum KX-PDM2                              | 99    |
| Envelope Tray KX-P431                     | 59    |
| Fonts                                     | 95    |
| Legal Tray KX-P425                        | 45    |
| Toner KX-P451                             | 39    |
| 4450i w/ cable                            | 1175  |
| 1MB Memory Card                           | 199   |
| Developer KX-PDP1                         | 95    |
| Drum KX-PDM1                              | 145   |
| Envelope Tray KX-P430                     | 59    |
| Fonts                                     | 95    |
| Legal Tray KX-P420                        | 45    |
| Toner KX-P450                             | 35    |
| 4455 w/ cable (Postscript)                | 1975  |
| same as 4450i                             |       |
| <b>SCANNER</b>                            |       |
| FXRS506U Flatbed Scanner                  |       |
| 6.5sec, 50 to 400dpi, 16 level gray scale |       |
| includes ReadRight OCR software           | 995   |

**16. POWER SUPPLY**

|                            |      |
|----------------------------|------|
| <b>LEADMAN</b>             |      |
| 150W (XT)                  | \$45 |
| 200W for Baby AT           | 60   |
| 220W (AT)                  | 60   |
| 220W for Tower             | 78   |
| Hard Disk Drive Casing 65W | 95   |
| 330W (UPS)                 | 199  |
| 500W (UPS)                 | 399  |
| 1200W (UPS)                | 899  |

**17. PRINTERS**

|                                  |        |
|----------------------------------|--------|
| <b>CANON</b>                     |        |
| BJ-10e w/ bag (bubble jet)       | \$329  |
| Auto Sheet Feeder                | 88     |
| Battery                          | 45     |
| Print Head Cartridge             | 22     |
| <b>CITIZEN</b>                   |        |
| GSX200 (9 pin)                   | 165    |
| GSX140 (24 pin)                  | 265    |
| Color Option                     | Add 45 |
| <b>EVEREX ABATON</b>             |        |
| Postscript Laser (3MB)           | 1895   |
| <b>FUJITSU</b>                   |        |
| DL1100                           | 295    |
| DL1100 w/ color                  | 345    |
| DL3400                           | 395    |
| <b>HP LASER</b>                  |        |
| IIP w/ toner                     | 965    |
| III w/ toner                     | 1575   |
| IIID w/ toner                    | 2595   |
| Toner for HP IIP                 | 75     |
| Toner for II/III                 | 85     |
| <b>PANASONIC</b>                 |        |
| see Panasonic Section 15         |        |
| <b>QMS</b>                       |        |
| PS410 4ppm, 2MB, 45 Fonts        | 1995   |
| PS810 8ppm, 2MB                  | 2995   |
| ColorScript 100-10 4MB, 35 Fonts | 6595   |
| <b>SEIKO</b>                     |        |
| Smart Label Printer (IBM/APPLE)  | 185    |

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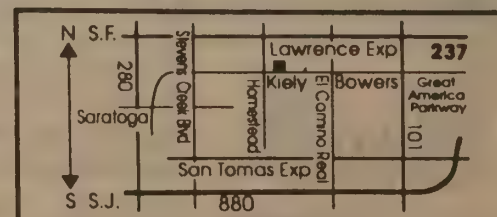
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### 18. SOFTWARE

#### Microsoft

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Microsoft C . . . . . 319  
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Power Point for Windows . . . . . 315  
Project for Windows . . . . . 445  
Quick Basic . . . . . 69  
Quick C Compiler w/ Quick Assembler . . . . . 125  
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Lotus 1-2-3 Rel 3.1 . . . . . 389  
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Norton . . . . .

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Utility Advanced 4.5 . . . . . 89  
Utility 5.0 . . . . . 119  
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Personal Lawyer/ Lifestyles . . . . . 55  
Protel Easytrax v2 . . . . . 269  
Quarterdeck . . . . .  
Exp Mem Manager 386 . . . . . 69  
Manifest . . . . . 45  
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Ventura Publishing Gold for Windows . . . . . 519  
Wordstar 6.0 . . . . . 250

### 19. SYSTEMS

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STEP 486 AT Case, 4MB, 1P, 1S,  
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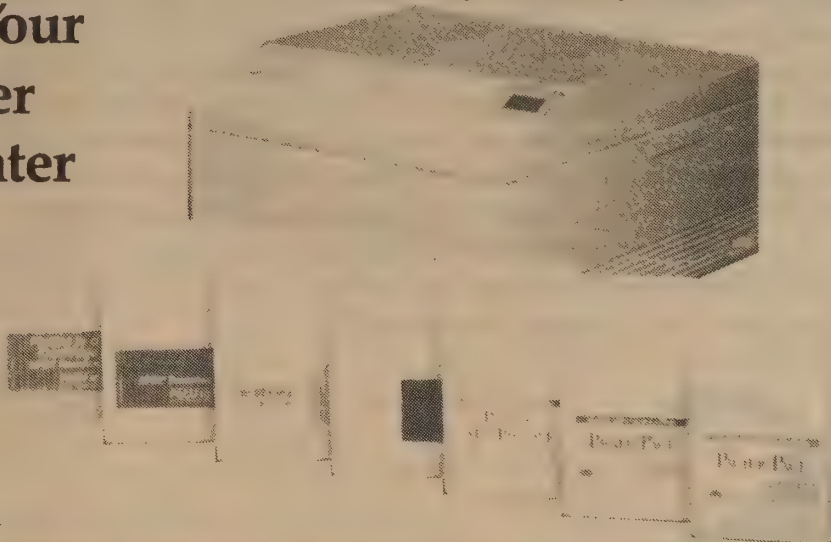
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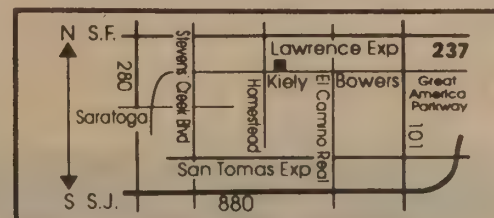
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| PART#  | NAME                              | FUNCTION                                      | COMPATIBILITY                                            | PRICE                                                 |
|--------|-----------------------------------|-----------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|
| MB 100 | 1-2-4 Plus                        | Memory Upgrade                                | HP II, IID                                               | 1 MB .... \$140<br>2 MB .... \$205<br>4 MB .... \$329 |
| MB 151 | Pacific Memory                    | Memory Upgrade                                | HP IIP, III                                              | Same as above                                         |
| MB 170 | LP Memory                         | Memory Upgrade                                | IBM 4019/E                                               | 1 MB .... \$140<br>2 MB .... \$205<br>3.5 MB .. \$309 |
| MB 265 | Pacific T Memory                  | Memory Upgrade                                | Epson EPL 6000<br>AT&T 593<br>Packard Bell PB 9500       | 2 MB .... \$235<br>4 MB .... \$385                    |
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| CF200  | Headlines in a Cartridge          | Large Point (48pts)                           | HP II, IIP, IID<br>Cannon LBP-811<br>Olivetti PG-108/208 | \$185                                                 |
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| CE151  | Plotter in a Cartridge P.E.       | Emulates HP7457A                              | HP IIP, IID, III                                         | \$225                                                 |
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| 010358 | Page & Memory                     | Postscript & 2MB                              | HP II                                                    | \$389                                                 |
| CE270  | Pacific Page P.E.                 | Postscript Language                           | HP IIP, IID, III                                         | \$325                                                 |
| CE280  | Pacific MacPage                   | Postscript Language For Apple                 | HP II w/Apple                                            | \$425                                                 |
| CE290  | Pacific MacPage P.E.™             | Postscript Language                           | HP IIP, IID, III w/Apple                                 | \$395                                                 |
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| CF215  | Pacific Outline I                 | Outline Font                                  | HP III                                                   | \$215                                                 |
| CF220  | Pacific Outline II                | Outline Font                                  | HP III                                                   | \$215                                                 |
| CE050  | Pacific Bar Code                  | Bar Code Sign                                 | HP II                                                    | \$325                                                 |
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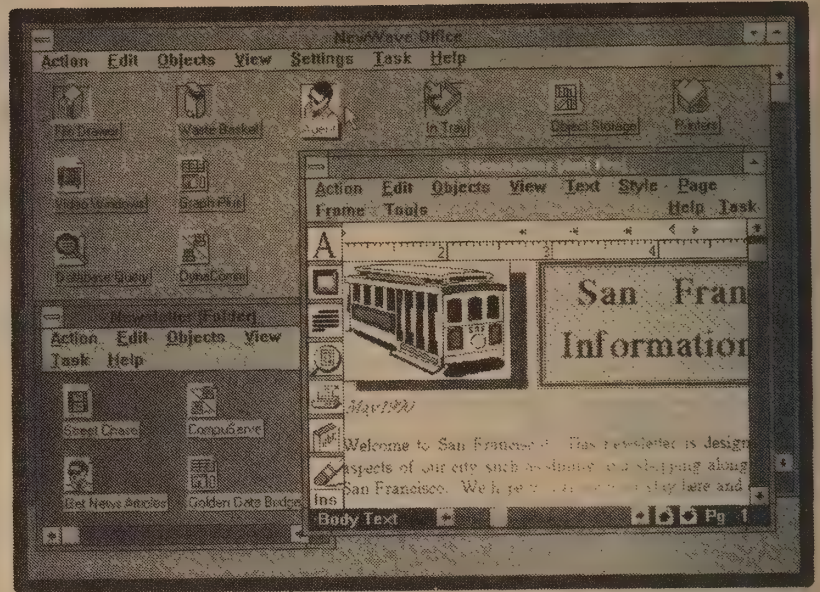




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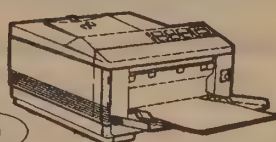
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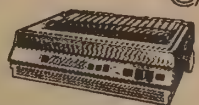
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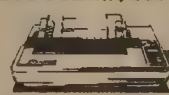
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\*Intel 80386-25 CPU

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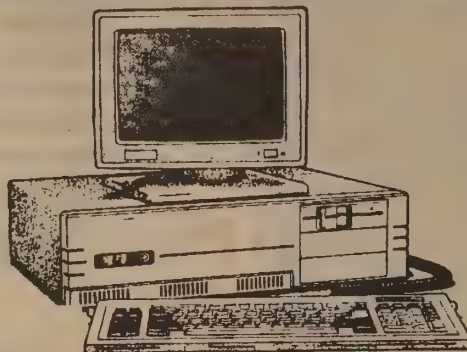
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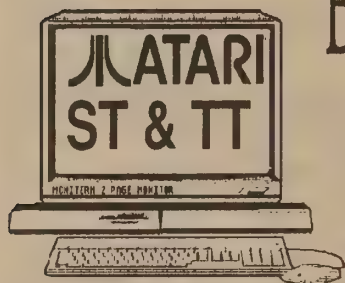
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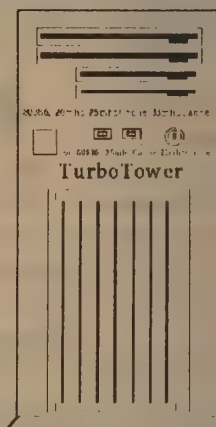
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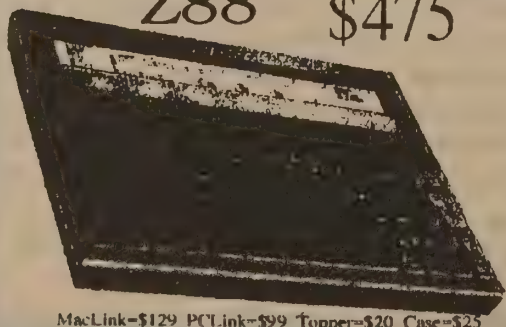


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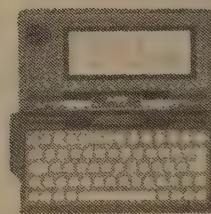
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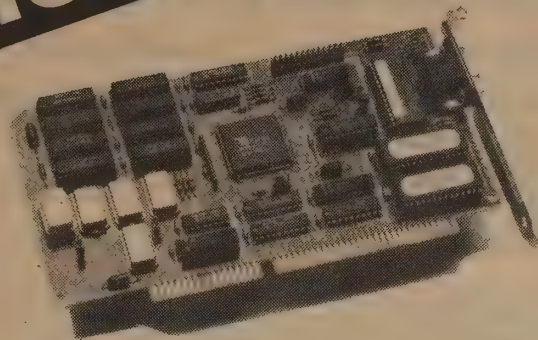


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| Draw Perfect     | Y             | N                            | N              | N                             | N                  |
| 1.23 V 2.2       | Y             | Y                            | N              | Y                             | Y                  |
| 8514/A           | Y             | N                            | N              | N                             | Y                  |
| Mutiple Outputs  | Y             | N                            | N              | Digital, Analog, N<br>Feature |                    |

\*A. 80x25 Text    B. 80x43 Text    C. 80x60 Text    D. 100x60 Text  
E. 132x25 Text    F. 132x28 Text    G. 132x43 Text

Source: (Computer Shopper, Sept 1990)

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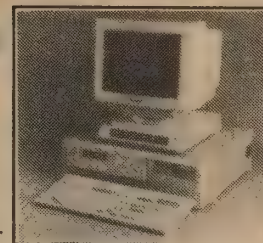
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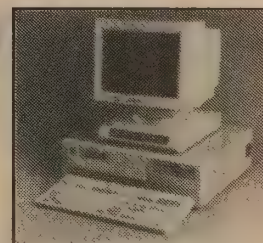


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### TCI 386-33MHz W/64K CACHE

- LM speed test: 55 MHz
- Intel 80386-33MHz CPU
- Zero Wait State
- Turbo 8/33MHz Switchable
- AMI BIOS With Build-In Set-Up
- 1MB RAM On Board Expandable to 16MB
- (1) 32-Bit, (6) 16-Bit, (1) 8-Bit
- 1.2MB Floppy Drive (TEAC)
- 1:1 Interleave 2(Hard disk & Floppy) Controller
- 2 Serials, 1 Parallel & 1 Game Port
- Real Time Clock/Calendar & Battery Back-Up
- Delux AT Case & 200 Watts Power Supply
- 101 Enhanced Keyboard
- SUPER COLOR VGA (1024X768) Dot Pitch .28
- TCI MASTER 16 BIT SUPER VGA CARD (1024X768) W/1MB
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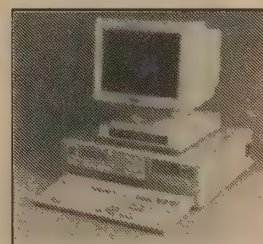


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- LM speed test: 43 MHz
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- Zero Wait State
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- 1MB RAM On Board Expandable to 8MB
- (1) 32-Bit, (6) 16-Bit, (1) 8-Bit
- 1.2MB Floppy Drive (TEAC)
- 1:1 Interleave 2(Hard disk & Floppy) Controller
- 2 Serials, 1 Parallel & 1 Game Port
- Real Time Clock/Calendar & Battery Back-Up
- Delux AT Case & 200 Watts Power Supply
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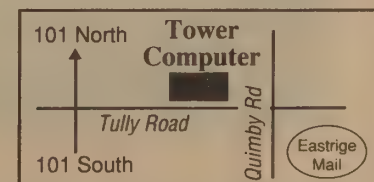
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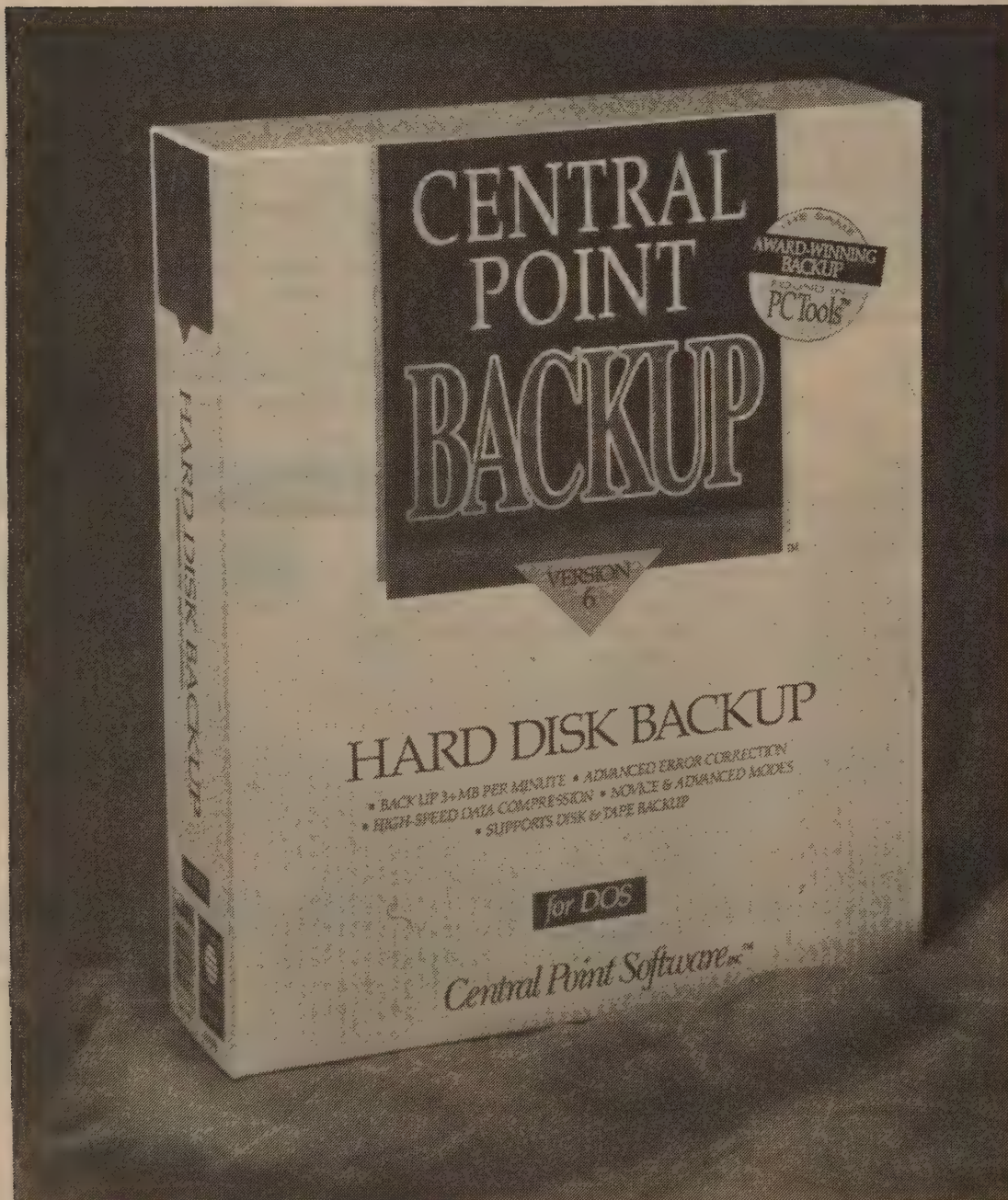




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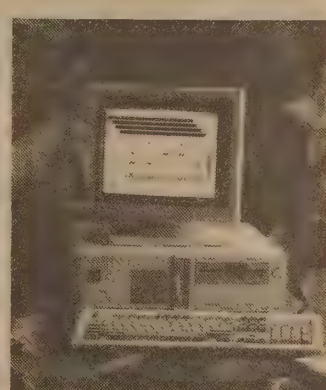
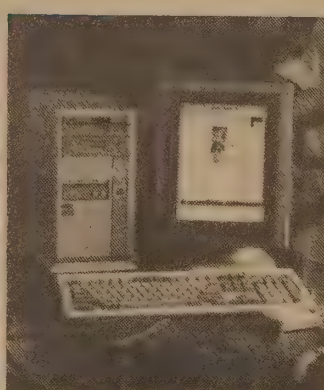
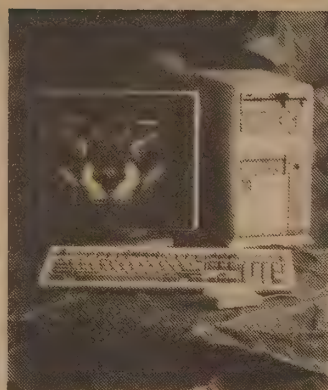
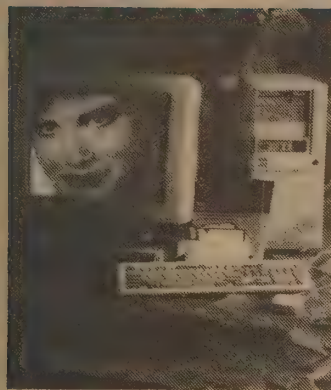


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| NEC 2A 14" TTL 800x600 .....               | <b>485</b>   |
| NEC 3D 14" .28DP TTL 1024x768 .....        | <b>635</b>   |
| VGA 14" 1024x768 PMV14C PLUS .....         | <b>440</b>   |
| SAMSUNG VGA 14" 640x480 .....              | <b>295</b>   |
| SAMSUNG VGA 14" 1024x768 .....             | <b>360</b>   |
| SAMSUNG MONO MONITOR 12" w/TILT BASE ..... | <b>95</b>    |
| HYUNDAI VGA 14" 800x600 .....              | <b>310</b>   |
| HYUNDAI VGA 14" 640x480 .....              | <b>285</b>   |
| HYUNDAI MONO 12" .....                     | <b>85</b>    |
| AAMAZING VGA 14" 1024x768 .....            | <b>365</b>   |
| RELISYS VGA 14" 5155 MULTISYNC .....       | <b>425</b>   |
| RELISYS VGA 14" 9513 .....                 | <b>335</b>   |

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| I/O CARD 2S/P/G .....                                                                                    | <b>\$25</b>   |
| CLOCK CARD XT .....                                                                                      | <b>34</b>     |
| MGP CARD .....                                                                                           | <b>30</b>     |
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| VGA CARD 16-BIT 256K ON BOARD 800x600 .....                                                              | <b>85</b>     |
| SVGA CARD 1024x768 .....                                                                                 | <b>99</b>     |
| TRIDENT VGA 16-BIT 256K ON BOARD 1024x768 .....                                                          | <b>125</b>    |
| PARADISE 16-BIT 512K OF DRAM 1024x768 .....                                                              | <b>99</b>     |
| MEMORY EXPANSION CARD FOR IBM PS/2<br>MOD. 50, 50Z, 55FX, 60, 70 80 OR<br>MICRO CHANNEL COMPATIBLE ..... | <b>CALL</b>   |
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| EVEREX FAX MODEM 24/9600 .....                                                                           | <b>235</b>    |
| FAX CARD 9600 SEND/RECEIVE .....                                                                         | <b>165</b>    |
| 9600 INT/EXT MODEM V.32 .....                                                                            | <b>499</b>    |

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| TEAC 720K/1.44 MB ..... | <b>59/67</b>   |
| TOSHIBA 1.2 MB .....    | <b>67</b>      |
| TOSHIBA 1.44 MB .....   | <b>69</b>      |
| FUJITSU 1.2 MB .....    | <b>67</b>      |
| SONY 1.44 MB .....      | <b>70</b>      |

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|----------------------------------|--------------|
| ST-225 20 MB MFM, 65ms .....     | <b>\$190</b> |
| ST-251-I 40 MB MFM, 28ms .....   | <b>269</b>   |
| ST-4096 80 MB MFM, 28ms .....    | <b>499</b>   |
| ST-4144R 120 MB RLL .....        | <b>CALL</b>  |
| KL 320 20 MB MFM, 40ms .....     | <b>185</b>   |
| KL 330 30 MB RLL, 40ms .....     | <b>200</b>   |
| WD 95044 40 MB IDE/F, 28ms ..... | <b>275</b>   |
| WD 93044 40 MB IDE, 28ms .....   | <b>269</b>   |
| MITSUBISHI 65 MB RLL, 28ms ..... | <b>290</b>   |
| TOSHIBA 106 MB IDE, 25ms .....   | <b>510</b>   |
| MAXTOR 200 MB SCSI .....         | <b>953</b>   |
| CONNER 200 MB IDE .....          | <b>895</b>   |

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| 386-33 MHz w/64K Cache .....  | <b>475</b>    |
| 386-25 MHz w/64K Cache .....  | <b>355</b>    |
| 386-25 MHz .....              | <b>285</b>    |
| 386-20 MHz .....              | <b>275</b>    |
| 386SX-16 MHz .....            | <b>265</b>    |
| 286-16 MHz .....              | <b>135</b>    |
| 286-12 MHz .....              | <b>110</b>    |

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| PANASONIC KX-P1124 24 PIN ..... | <b>299</b>   |
| PANASONIC KX-P1624 24 PIN ..... | <b>375</b>   |
| PANASONIC 1624 .....            | <b>379</b>   |
| EPSON LX-810 9 PIN .....        | <b>210</b>   |
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|                         | 2MB KIT                                           | 30F5360  | \$170 <sup>00</sup> |
| PS/2<br>50Z & 55-SX     | IBM SIMM                                          | 6450603  | \$85 <sup>00</sup>  |
|                         | (Above 55-sx only)<br>2MB SIMM                    | 6450604  | \$160 <sup>00</sup> |
| PS/2<br>70-E61 & 70-121 | 1MB SIMM                                          | 6450603  | \$85 <sup>00</sup>  |
|                         | 2MB SIMM                                          | 6450604  | \$160 <sup>00</sup> |
| PS/2 70-A21             | 2MB SIMM                                          | 6450608  | \$170 <sup>00</sup> |
|                         | (Above Installed on System Board)                 |          |                     |
| PS/2<br>80-041          | 1MB SIMM                                          | 6450603  | \$85 <sup>00</sup>  |
|                         | 2MB SIMM                                          | 6450604  | \$160 <sup>00</sup> |
| PS/2<br>8-011 & 80-311  | (Above Installed on Expansion Board)<br>#6450605) |          |                     |
|                         | 1MB MODULE                                        | 6450375  | \$169 <sup>00</sup> |
| PS/2<br>8-011 & 80-311  | 2MB MODULE                                        | 6450379  | \$475 <sup>00</sup> |
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| PS/2<br>8-011 & 80-311  | 1MB SIMM                                          | 6450603  | \$85 <sup>00</sup>  |
|                         | 2MB SIMM                                          | 6450604  | \$160 <sup>00</sup> |
| PS/2<br>8-011 & 80-311  | (Above Installed on Expansion Board)<br>#6450605) |          |                     |
|                         | 1MB MODULE                                        | 6450375  | \$169 <sup>00</sup> |

| COMPAQ Model         | MEMORY Added | COMPAQ Part | AMT Price            |
|----------------------|--------------|-------------|----------------------|
| DESKPRO<br>386/33    | 2MB MODULE   | 115144-001  | \$330 <sup>00</sup>  |
| DESKPRO<br>386/20.25 | 1MB MODULE   | 113131-001  | \$149 <sup>00</sup>  |
| DESKPRO<br>386/20e   | 4MB MODULE   | 113132-001  | \$379 <sup>00</sup>  |
| DESKPRO<br>386/20e   | 1MB BOARD    | 113644-001  | \$285 <sup>00</sup>  |
|                      | 4MB BOARD    | 113645-001  | \$635 <sup>00</sup>  |
| DESKPRO<br>386/20e   | 1MB MODULE   | 113131-001  | \$185 <sup>00</sup>  |
|                      | 4MB MODULE   | 113132-001  | \$499 <sup>00</sup>  |
| DESKPRO<br>386/20e   | 1MB BOARD    | 113633-001  | \$265 <sup>00</sup>  |
|                      | 4MB BOARD    | 113634-001  | \$635 <sup>00</sup>  |
| DESKPRO<br>386/20e   | 1MB MODULE   | 113646-001  | \$149 <sup>00</sup>  |
|                      | 4MB MODULE   | 112534-001  | \$379 <sup>00</sup>  |
| PORTABLE<br>III      | 512K KIT     | 107331-001  | \$55 <sup>00</sup>   |
|                      | 2MB KIT      | 107332-001  | \$175 <sup>00</sup>  |
| DESKPRO<br>386/16    | 4MB BOARD    | 108070-001  | \$795 <sup>00</sup>  |
|                      | 8MB BOARD    | 108072-001  | \$1325 <sup>00</sup> |
| PORTABLE<br>386      | 1MB KIT      | 107651-001  | \$285 <sup>00</sup>  |
|                      | 4MB BOARD    | 107653-001  | \$1050 <sup>00</sup> |
| SLT/286              | 1MB MODULE   | 110235-001  | \$325 <sup>00</sup>  |

| APPLE Model               | MEMORY Added | APPLE Part | AMT Price            |
|---------------------------|--------------|------------|----------------------|
| MAC II Ix<br>Iicx & SE/30 | 1MB KIT      | MO218      | \$60 <sup>00</sup>   |
|                           | 4MB KIT      | MO2707     | \$250 <sup>00</sup>  |
| MAC IIc                   | 16MB KIT     |            | \$2799 <sup>00</sup> |
|                           | 4MB KIT      | MO292LL-A  | \$315 <sup>00</sup>  |
| MAC IIc                   | 16MB KIT     |            | \$2899 <sup>00</sup> |
|                           | 4MB KIT      | MO292LL-A  | \$315 <sup>00</sup>  |
| MAC SE<br>& PLUS          | 1MB KIT      | MO218      | \$60 <sup>00</sup>   |
|                           | 2MB KIT      | MO219      | \$120 <sup>00</sup>  |
| MAC SE<br>& PLUS          | 4MB KIT      | MO2707     | \$250 <sup>00</sup>  |
|                           | 16MB KIT     |            | \$2799 <sup>00</sup> |
| HP LASER Model            | MEMORY Added | HP Part    | AMT Price            |
| LASER JET II              | 1MB MODULE   | 33443B     | \$99 <sup>00</sup>   |
|                           | 2MB MODULE   | 33444B     | \$120 <sup>00</sup>  |
| LASER JET II              | 4MB MODULE   | 33445B     | \$199 <sup>00</sup>  |
|                           | 16MB MODULE  |            | \$2799 <sup>00</sup> |

| AST Model                | MEMORY Added | AST Part   | AMT Price           |
|--------------------------|--------------|------------|---------------------|
| BRAVO/286                | 512K KIT     | 500510-010 | \$70 <sup>00</sup>  |
|                          | 2MB KIT      | 500510-002 | \$185 <sup>00</sup> |
| PREMIUM<br>286           | 4MB KIT      | 500510-008 | \$360 <sup>00</sup> |
|                          | 512K KIT     | 500510-001 | \$70 <sup>00</sup>  |
| PREMIUM<br>ADVANCED      | 1MB KIT      | 500510-007 | \$130 <sup>00</sup> |
|                          | 2MB KIT      | 500510-002 | \$190 <sup>00</sup> |
| FASTBOARD<br>386         | 4MB KIT      | 500510-008 | \$360 <sup>00</sup> |
|                          | 512K KIT     | 500510-010 | \$70 <sup>00</sup>  |
| PREMIUM<br>WKST/286      | 1MB KIT      | 500510-007 | \$130 <sup>00</sup> |
|                          | 2MB KIT      | 500510-002 | \$190 <sup>00</sup> |
| PREMIUM<br>WKST<br>386SX | 4MB KIT      | 500510-008 | \$360 <sup>00</sup> |
|                          | 512K KIT     | 500510-010 | \$70 <sup>00</sup>  |
| PREMIUM<br>386/16        | 1MB KIT      | 500510-007 | \$130 <sup>00</sup> |
|                          | 4MB KIT      | 500510-008 | \$360 <sup>00</sup> |
| PREMIUM<br>386           | 1MB KIT      | 500510-003 | \$165 <sup>00</sup> |
|                          | 4MB KIT      | 500510-004 | \$379 <sup>00</sup> |
| PREMIUM<br>386c          | 1MB KIT      | 500510-007 | \$130 <sup>00</sup> |
|                          | 4MB KIT      | 500510-008 | \$360 <sup>00</sup> |
| PREMIUM<br>386/25ex      | 1MB          | 500718-001 | \$85 <sup>00</sup>  |
|                          | SIMM         |            |                     |
| PREMIUM<br>386/33        | 1MB          | 500718-002 | \$90 <sup>00</sup>  |
|                          | SIMM         |            |                     |

| ZENITH Model | MEMORY Added | AMT Price           |
|--------------|--------------|---------------------|
| 386/25       | 1MB KIT      | \$139 <sup>00</sup> |
|              | 2MB KIT      | \$299 <sup>00</sup> |
| 386/33       | 1MB KIT      | \$139 <sup>00</sup> |
|              | 2MB KIT      | \$299 <sup>00</sup> |
|              | 4MB KIT      | \$499 <sup>00</sup> |

| MICROPROCESSORS | Price               |
|-----------------|---------------------|
| 68020 16MHz     | \$129 <sup>00</sup> |
| 20MHz           | \$169 <sup>00</sup> |
| 25MHz           | \$179 <sup>00</sup> |
| 33MHz           | \$199 <sup>00</sup> |
| 68030 16MHz     | \$129 <sup>00</sup> |
| 25MHz           | \$199 <sup>00</sup> |
| 68010 8MHz      | \$60 <sup>00</sup>  |

| CPU CHIPS   | Price               |
|-------------|---------------------|
| 80386 DX-16 | \$250 <sup>00</sup> |
| 80386 DX-20 | \$350 <sup>00</sup> |
| 80386 DX-25 | \$399 <sup>00</sup> |
| 80386 DX-33 | \$400 <sup>00</sup> |
| 80386SX-16  | \$250 <sup>00</sup> |
| V-20-8      | \$6 <sup>00</sup>   |
| V-20-10     | \$10 <sup>00</sup>  |
| V-30-10     | \$10 <sup>00</sup>  |

| DRAM                    | Price               |
|-------------------------|---------------------|
| <b>DRAM 1MGX1</b>       |                     |
| 1 MGX1-120NS            | \$45 <sup>00</sup>  |
| 1 MGX1-100 NS           | \$47 <sup>50</sup>  |
| 1 MGX1-80 NS            | \$50 <sup>00</sup>  |
| 1 MGX1-70 NS            | \$52 <sup>50</sup>  |
| 1 MGX1-60 NS            | \$62 <sup>50</sup>  |
| <b>DRAM 256X1</b>       |                     |
| 256X1-150 NS            | \$17 <sup>00</sup>  |
| 256X1-120 NS            | \$19 <sup>00</sup>  |
| 256X1-100 NS            | \$20 <sup>00</sup>  |
| 256X1-80 NS             | \$21 <sup>50</sup>  |
| 256X1-70 NS             | \$22 <sup>50</sup>  |
| 256X1-60 NS             | \$37 <sup>00</sup>  |
| <b>DRAM 256X4</b>       |                     |
| 256X4-120 NS            | \$45 <sup>00</sup>  |
| 256X4-100 NS            | \$47 <sup>50</sup>  |
| 256X4-80 NS             | \$49 <sup>00</sup>  |
| 256X4-70 NS             | \$50 <sup>00</sup>  |
| 256X4-60 NS             | \$80 <sup>00</sup>  |
| <b>DRAM 64X1</b>        |                     |
| 4164-15                 | \$11 <sup>50</sup>  |
| 4164-12                 | \$19 <sup>00</sup>  |
| 4164-10                 | \$25 <sup>00</sup>  |
| <b>DRAM 64X4</b>        |                     |
| 4464-150                | \$200 <sup>00</sup> |
| 4464-120                | \$250 <sup>00</sup> |
| 4464-100                | \$275 <sup>00</sup> |
| 4464-80                 | \$300 <sup>00</sup> |
| <b>256X1-STATIC COL</b> |                     |
| 51258 P-10              | \$27 <sup>00</sup>  |
| AAA 2800-08             | \$30 <sup>00</sup>  |
| AAA 2800-07             | \$32 <sup>50</sup>  |
| AAA 2800-60             | \$45 <sup>00</sup>  |
| 1X4-80 ZIPP             | \$35 <sup>00</sup>  |
| 1X4-80 ZIPP STT         | \$50 <sup>00</sup>  |
| 4X1-80                  | CALL                |

| VIDEORAM FOR VIDEO CARD  | Price                |
|--------------------------|----------------------|
| 64X4-150 NS 412642-15    | \$400 <sup>00</sup>  |
| 64X4-120 NS 412642-12    | \$450 <sup>00</sup>  |
| 64X4-100 NS 412642-10    | \$500 <sup>00</sup>  |
| <b>CACHE MEMORY 16X4</b> |                      |
| HM 6788-25               | \$650 <sup>00</sup>  |
| MC 6288-35               | \$950 <sup>00</sup>  |
| 64X4 CACHE MEMORY        |                      |
| HM6708P25                | \$2400 <sup>00</sup> |

| MATH COPROCESSORS | Price               |
|-------------------|---------------------|
| <b>INTEL</b>      |                     |
| 8087-5MHz         | \$80 <sup>00</sup>  |
| 8087-2 8MHz       | \$116 <sup>00</sup> |
| 8087-1 10MHz      | \$140 <sup>00</sup> |
| 80287-6 6MHz      | \$130 <sup>00</sup> |
| 80287-8 8MHz      | \$185 <sup>00</sup> |
| 80287XL 8/10MHz   | \$185 <sup>00</sup> |
| 80287XTL 12MHz    | \$210 <sup>00</sup> |
| (Laptop)          |                     |
| 80287-10 10MHz    | \$185 <sup>00</sup> |
| 80C287-12 12MHz   | \$185 <sup>00</sup> |
| 80387SX-16        | \$285 <sup>00</sup> |
| 80387SX-20        | \$310 <sup>00</sup> |
| 80387-16          | \$295 <sup>00</sup> |
| 80387DX-20        | \$340 <sup>00</sup> |
| 80387DX-25        | \$425 <sup>00</sup> |
| 80387DX-33        | \$525 <sup>00</sup> |
| <b>AMD</b>        |                     |
| 80C282-10         | \$120 <sup>00</sup> |
| 80C712            | \$135 <sup>00</sup> |
| <b>WEITEK</b>     |                     |
| 3167-20 20MHz     | \$300 <sup>00</sup> |
| 3167-25 25MHz     | \$350 <sup>00</sup> |
| 3167-33 33MHz     | \$500 <sup>00</sup> |
| <b>CYREX</b>      |                     |
| 83087-16 16MHz    | \$260 <sup>00</sup> |
| 83087-20 20MHz    | \$295 <sup>00</sup> |
| 83087-25 25MHz    | \$385 <sup>00</sup> |
| 83087-33 33MHz    | \$440 <sup>00</sup> |
| 835X87-16 16MHz   | \$235 <sup>00</sup> |
| 835X87-20 20MHz   | \$260 <sup>00</sup> |
| <b>IIIT</b>       |                     |
| 8C87-8            | \$185 <sup>00</sup> |
| 8C287-10          | \$175 <sup>00</sup> |
| 8C287-12          | \$200 <sup>00</sup> |
| 8C287-20          | \$230 <sup>00</sup> |
| 8C387-20          | \$280 <sup>00</sup> |
| 8C387-25          | \$375 <sup>00</sup> |

| STANDARD SIMMS  | Price               |
|-----------------|---------------------|
| 256KX8 150NS    | \$15 <sup>00</sup>  |
| 256KX8 120NS    | \$16 <sup>00</sup>  |
| 256KX8 100NS    | \$17 <sup>00</sup>  |
| 256KX8 80NS     | \$20 <sup>00</sup>  |
| 256KX9 150NS    | \$16 <sup>00</sup>  |
| 256KX9 120NS    | \$19 <sup>00</sup>  |
| 256KX9 100NS    | \$20 <sup>00</sup>  |
| 256KX9 80NS     | \$22 <sup>00</sup>  |
| 256KX9 70NS     | \$25 <sup>00</sup>  |
| 256KX9 60NS     | \$30 <sup>00</sup>  |
| 256KX9 80NS S/C | \$25 <sup>00</sup>  |
| 256KX9 70NS S/C | \$25 <sup>00</sup>  |
| 256KX9 60NS S/C | \$30 <sup>00</sup>  |
| 1MX8 120NS      | \$40 <sup>00</sup>  |
| 1MX8 100NS      | \$45 <sup>00</sup>  |
| 1MX8 80NS       | \$48 <sup>00</sup>  |
| 1MX8 70NS       | \$45 <sup>00</sup>  |
| 1MX9 120NS      | \$45 <sup>00</sup>  |
| 1MX9 100NS      | \$48 <sup>00</sup>  |
| 1MX9 80NS       | \$49 <sup>00</sup>  |
| 1MX9 70NS       | \$52 <sup>00</sup>  |
| 1MX9 60NS       | \$60 <sup>00</sup>  |
| 1MX9 100NS S/C  | \$65 <sup>00</sup>  |
| 1MX9 80NS S/C   | \$70 <sup>00</sup>  |
| 1MX9 70NS S/C   | \$75 <sup>00</sup>  |
| 1MX9 60NS S/C   | \$75 <sup>00</sup>  |
| 4MX8 80NS       | \$255 <sup>00</sup> |
| 4MX9 80NS       | \$250 <sup>00</sup> |
| 4MX9 70NS       | \$275 <sup>00</sup> |

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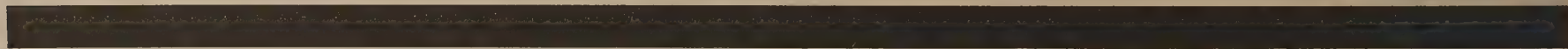
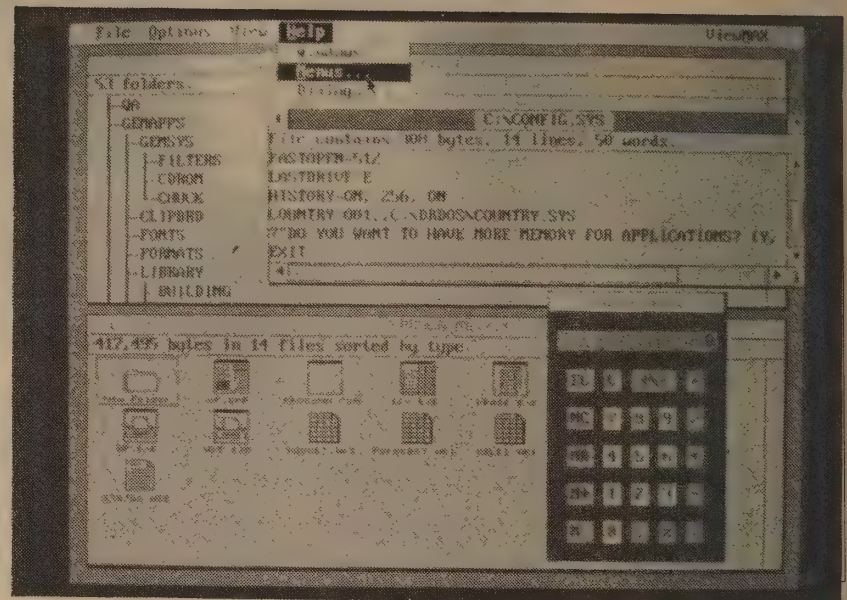




## DIGITAL RESEARCH DOS 5.0

Digital Research DR DOS 5.0 is a powerful single-user, single-task DOS-compatible operating system designed for Intel-based personal computers. Its list of features includes MemoryMAX to allow you to move the operating system, buffers and drives out of conventional memory; FileLINK for quick and easy file transfer; and ViewMAX to view, organize and execute files and commands using one or two keystrokes or a mouse. DR DOS is fully compatible with Windows 3.0. (\$199) Digital Research, Inc., Box DRI, 70 Garden Ct., Monterey, CA 93942. (408)649-3896.

# SOFTWARE



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Then there's the Macintosh Portable, the desktop computer for people with more than one desktop. It has everything you expect from Macintosh, including a short learning curve and an intuitive interface, in a battery-powered, integrated system.

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# GoldStar VGA MONITORS

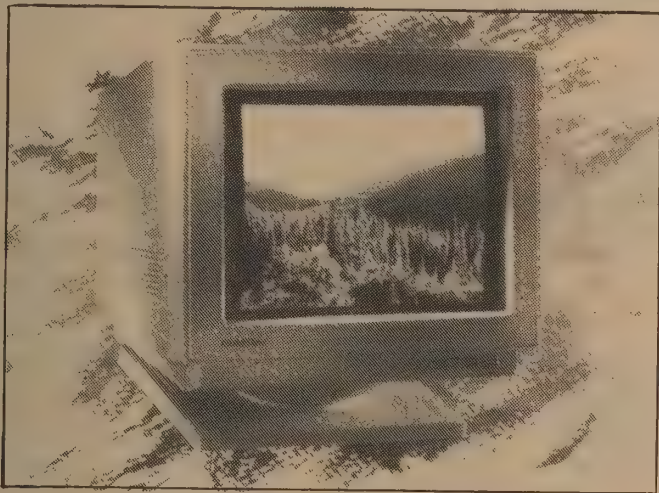
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| 1450 Plus       | 800x600  | 14" VGA                       |
| 1430 Plus       | 640x480  | 14" VGA                       |
| 1425 Plus       | 640x480  | 14" VGA                       |
| 1405 Plus       | 800x600  | 14" VGA Mono                  |
| 1220 W          | 640x480  | 12" VGA Mono                  |
| *NEW MODEL 1423 | 640x480  | 14" VGA.... <b>ONLY \$209</b> |



## CHINON CD-ROM DRIVE

**CDS-431 (Internal) CDX-431 (External)**

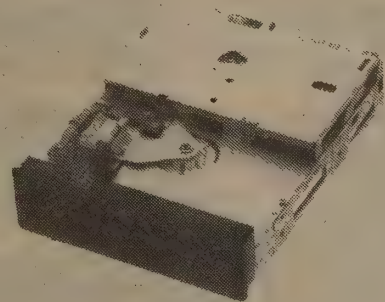
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- 12 MHz CPU clock speed
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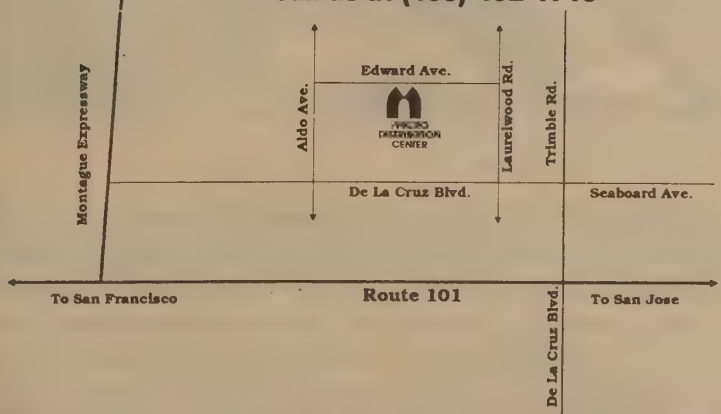
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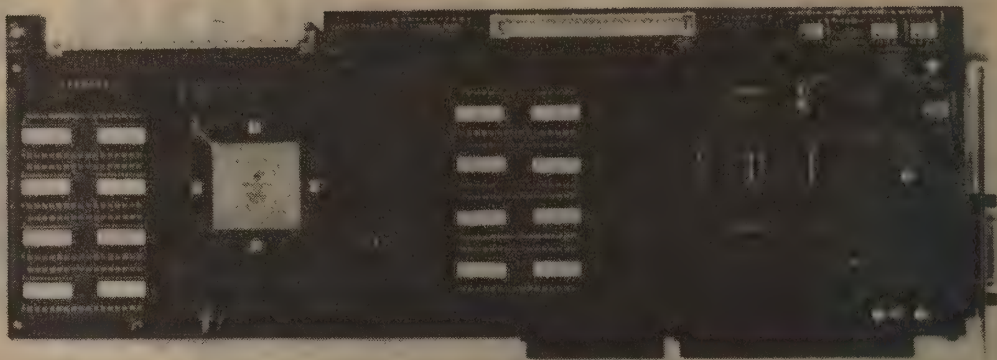
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## NEW CACHE ON THE BLOCK

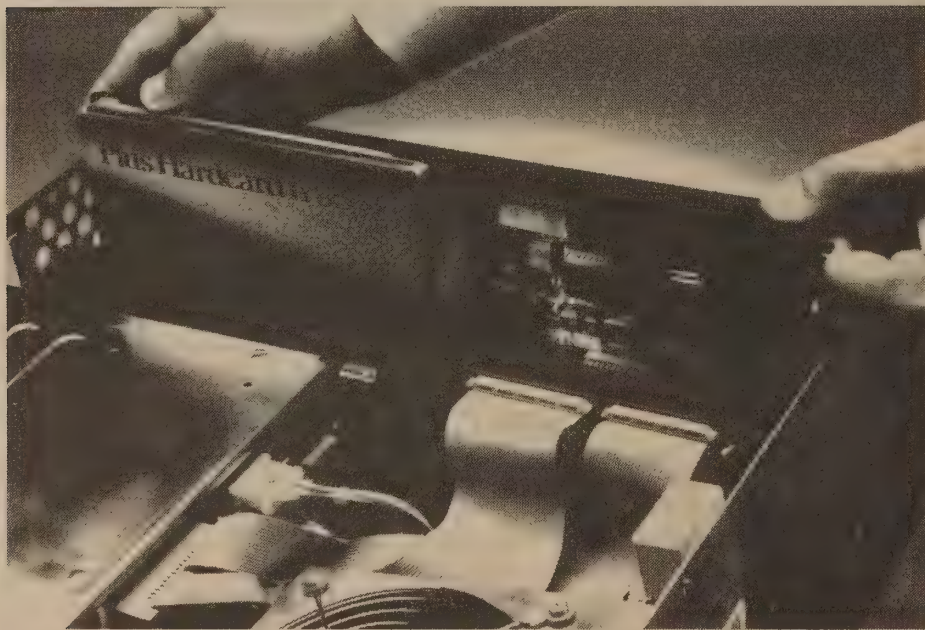
The Cache 386-33/BAT board, from Cache Computers, brings 386 computing to laptop and portable computers. This BAT board uses multi-level caching to maximize performance, and includes both a 128-byte "Tiny Turbo" internal cache and up to 64K of external cache. With this memory configuration, the BAT board functions at over 8MIPS. It can accommodate up to 8Mb of onboard memory. (\$1400) Cache Computers, Inc., 46714 Fremont Blvd., Fremont, CA 94538. (415)226-9922.



## SPECTRUM SYSTEM BOARD FOR MOTOROLA PROCESSOR

Spectrum Signal Processing's new System Board, designed for applications from multimedia to robotics, is built around the 33MHz Motorola DSP96002 floating point processor. The DSP96002 System Board features 17 MIPS and 50 MFLOPS of throughput performance. This board also includes a pair of 16-bit delta sigma D/A and A/D channels, addressing the high quality analog-to-digital and digital-to-analog requirements of most DSP applications. Another key feature is Spectrum's DSP-Link, a two way expansion interface that provides a simple connection to other Spectrum peripheral interface cards, or a designer's own custom peripheral hardware. (\$5695) Spectrum Signal Processing, Inc., 264 H St., PO Box 8110-25, Blaine, WA 98230. 1-800-663-8986.

# BOARDS

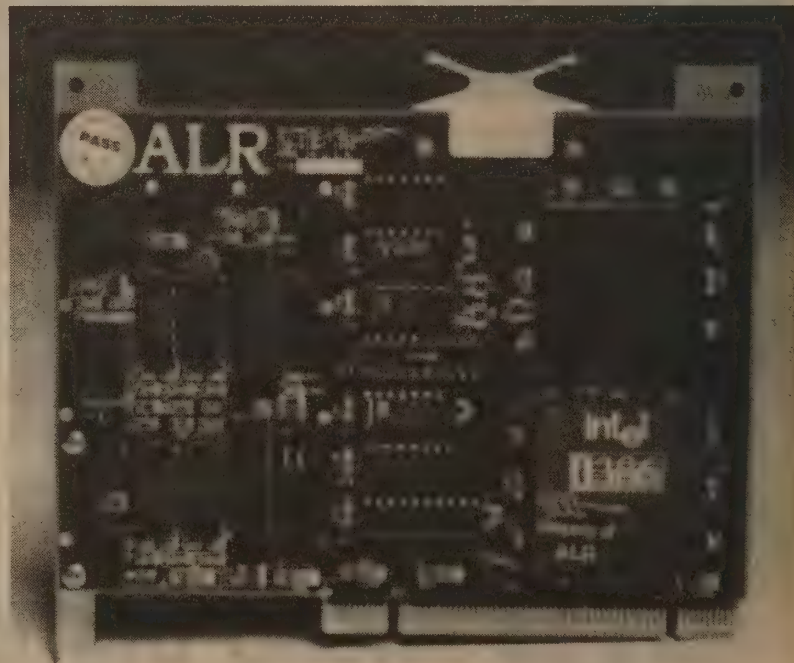


## STORAGE ON A CARD

Plus Development Corp., a wholly owned subsidiary of Quantum Corp., has introduced the Hardcard II 80 and Hardcard II 40 hard disk cards. These cards, designed to be a convenient and reliable upgrade for 286- and 386-based machines, provide 40Mb or 80Mb of mass storage on a single one-inch card that easily plugs into any 16-bit expansion slot. The Hardcard II features Defect Free Interface (DFI), an automatic, user-transparent method of mapping bad disk sectors before data is endangered. If a marginal sector is found on the disk, the data is removed to a good spare sector and the bad sector is mapped out. (Hardcard II 80, \$999; Hardcard II 40, \$399) Plus Development Corp., 1778 McCarthy Blvd., Milpitas, CA 95034-7421. (408)434-6900.

## MICRO CHANNEL UPGRADE WITH ALR

The 33MHz 386 ALR Modular Processor System (MPS) provides 25MHz and 33MHz i486-based CPU upgradeability on a Micro Channel PC bus. It combines 32-bit Micro Channel bus master capabilities with Intel's 386DX CPU and latest 386 Smart Cache to provide 16Kb cache and i486 CPU with internal 8Kb cache. The MPS implements a 25% faster performance rating than the classic AT-bus. The MPS can expand memory up to 49Mb and provides hard drive expansion up to 330Mb using an integrated IDE controller. It uses an optional ALR Micro Channel-compatible VGA that provides 1024 x 768 resolution. (Retail prices range from \$1995 to \$7595) Advanced Logic Research, Inc., 9401 Jeronimo, Irvine, CA 92718. (714)581-6770.





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## MOTHERBOARDS

|                                |       |
|--------------------------------|-------|
| 386-33 MHz 64K Cache (w/o cpu) | \$390 |
| 386-25 MHz 64K Cache (w/o cpu) | 349   |
| 386-25 MHz (w/o cpu)           | 225   |
| 386-16SX MHz                   | 335   |
| 286-20 MHz                     | 250   |
| 286-16 MHz                     | 160   |
| 286-12 MHz                     | 99    |

## HARD DRIVES

|                      |       |
|----------------------|-------|
| ST 225 (20 MB)       | \$179 |
| ST 238R (30 MB)      | 199   |
| ST 251-1 (40 MB)     | 249   |
| ST 4096 (80 MB)      | 569   |
| NEC 60 MB (RL)       | 320   |
| NEC 150 MB (ESDI)    | 799   |
| Conner 80 MB         | 509   |
| Conner 100 MB        | 559   |
| Conner 200 MB        | 895   |
| Maxtor 150 MB (ESDI) | 945   |
| Maxtor 320 MB (ESDI) | 1395  |
| Maxtor 320 MB (SCSI) | 1395  |

## ADD-ON CARDS

|                              |      |
|------------------------------|------|
| Mono/Printer Card            | \$30 |
| EGA 800x600                  | 75   |
| VGA 16 Bit 800x600           | 85   |
| Paradise VGA 16 Bit 1024x768 | 110  |
| Trident VGA 16 Bit 1024x768  | 110  |
| AT 1:1 H/FDC MFM             | 69   |
| AT I/O 2S, 1P, 1G            | 29   |
| DTC 7280 1:1 F/HDC           | 89   |
| DTC 7287 1:1 F/HDC (RL)      | 98   |
| DTC 6280 ESDI                | 140  |

## FLOPPY DRIVES

|                |         |
|----------------|---------|
| Teac 360K/1.2  | \$63/69 |
| Teac 720K/1.44 | 62/69   |
| Fuji 360/1.2   | 58/68   |

## MONITORS

|                        |         |
|------------------------|---------|
| Hyundai                | \$70    |
| Relisys EGA            | 320     |
| Relisys VGA (1024x768) | 350     |
| NEC MultiSync 2D/3D    | 469/619 |

## MISC/MEMORY

|                 |       |
|-----------------|-------|
| 41256-80        | \$195 |
| 44256-80        | 850   |
| 256x9-80        | 1750  |
| 1Mx1-80         | 750   |
| 1Mx9-80         | 39    |
| 4Mx9-80         | 295   |
| Keytronic (101) | 47    |
| 101 Key         | 38    |
| 2400B Modem     | 75    |
| Optical Mouse   | 65    |

## PANASONIC PRINTERS

|          |       |
|----------|-------|
| KX-P1180 | \$161 |
| KX-P1124 | 285   |
| KX-P4420 | 899   |

**\$2999**

**486-25 MHz 64K CACHE**

LANDMARK = 115

- ☐ 1 MB Ram Expandable to 8 MB
- ☐ AMI BIOS
- ☐ 2X32 Bit, 5X16 Bit, 1X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 1:1 2 FD/2 HD Controller
- ☐ 2 Serial, 1 Parallel, 1 Game Port
- ☐ 230W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard



**HOLIDAY SPECIAL**

**386-33 MHz 64K CACHE**

LANDMARK = 56

- ☐ 1 MB Ram Expandable to 8 MB
- ☐ Socket 80387 & AMI BIOS
- ☐ 2X32 Bit, 5X16 Bit, 1X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 1:1 2 FD/2 HD Controller
- ☐ 2 Serial, 1 Parallel, 1 Game Port
- ☐ 230W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard



**HOLIDAY SPECIAL**

**386-25 MHz 64K CACHE**

LANDMARK = 43

- ☐ 1 MB Ram Expandable to 8 MB
- ☐ Socket 80387 & AMI BIOS
- ☐ 1X32 Bit, 5X16 Bit, 2X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 1:1 2 FD/HD Controller
- ☐ 230W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard



**HOLIDAY SPECIAL**

**386-25 MHz**

LANDMARK = 33

- ☐ 1 MB Ram Expandable to 8 MB
- ☐ Socket 80387 & AMI BIOS
- ☐ 1X32 Bit, 5X16 Bit, 2X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 1:1 2 FD/2 HD Controller
- ☐ 2 Serial, 2 Parallel, 1 Game Port
- ☐ 200W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard



**HOLIDAY SPECIAL**

**386SX-16 MHz**

LANDMARK = 21

- ☐ 1 MB Ram Expandable to 4 MB
- ☐ Socket 80387 & AMI BIOS
- ☐ 6X16 Bit, 2X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 2 FD/HD Controller
- ☐ Serial, Parallel, Game Port
- ☐ 200W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard

| Monitor & Drive Options | 40 MB | 80 MB | 100MB |
|-------------------------|-------|-------|-------|
| Mono                    | 339   | 525   | 580   |
| VGA                     | 610   | 795   | 850   |
| Super VGA               | 659   | 855   | 910   |

**\$459**

**286-16 MHz**

LANDMARK = 21

- ☐ 512K Ram Expandable to 4 MB
- ☐ Socket 80287 & AMI BIOS
- ☐ 6X16 Bit, 2X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 2 FD/HD Controller
- ☐ 200W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard

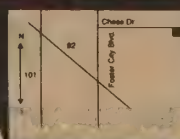
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**286-12 MHz**

LANDMARK = 16

- ☐ 512K Ram Expandable to 4 MB
- ☐ Socket 80287 & AMI BIOS
- ☐ 6X16 Bit, 2X8 Bit Slots
- ☐ Real Time Clock w/Battery Backup
- ☐ 1.2 MB Floppy Drive
- ☐ 2 FD/HD Controller
- ☐ 200W PS w/Case Holds 5 Drives
- ☐ 101 Enhanced Keyboard

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1163 Chess Drive, Suite D  
Foster City, CA 94404



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The BTC CUTIE Scanner offers powerful compatibility and is a flexible tool to create perfect polished documents every time. It's the total solution for scanning image, bit editing to OCR compatibility. For an unbeatable price you get Scan Utility, OCR software—all backed by our reputation and one of the best warranties in the industry.

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If you have been waiting for the best hand held scanner—YOUR WAITING IS OVER NOW! The BTC CUTIE Scanner fulfills your needs with an attractive price. The BTC CUTIE comes with fast speed scanning, virtual page window and easy operation. You get what you want!

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The BTC CUTIE Scanner provides Scan Utility and Bit Paint software which can flexibly enhance your image control. Only the BTC CUTIE Scanner is compatible with most graphic displays and is a perfect match for the most popular applications packages.

## EXCELLENT DESIGN AND COMFORTABILITY

The BTC CUTIE Scanner was designed with you in mind. It's sleek, easy to use and fits your hand like a whisper of wind.

## FEATURES

- Scanning width: 105mm
- Reading resolution: 400/300/200 DPI switchable
- Reading speed: 3.1 ms/line
- Compatible display: CGA(640x200), MGA(720x348), EGA(640x350), VGA(640x480,800x600), SVGA(1024x768).
- Popular format package support: DTP; TIFF(Pagemaker), IMG: (GEM VENTURA).  
PAINT: PCX (PC paintbrush), MPS (MS Windows Paint), CUT(Dr. Halo).
- Bit editing support
- Merge small images into A4 size
- F.C.C. approved

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Includes: CUTIE Scanner, Scan Utility, BitPaint software, CUTIE Mouse and CUTIE OCR software

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# Touch For The Future



## Computer Systems

### SYSTEMS

#### • 486 EISA

|                  |        |
|------------------|--------|
| AMI 33 MH        | CALL   |
| MICRONICS 33 MHz | \$6369 |
| OTHER 33 MHz     | CALL   |
| AMI 25 MHz       | CALL   |
| MICRONICS 25 MHz | \$5219 |
| OTHERS 25 MHz    | \$5020 |

\*4 Meg RAM  
1.2 or 1.44 FD  
360 MB H/D  
1:1 Interleave  
2 S, 2 P  
Keyboard 101  
14" SVGA Monitor  
16 Bit SVGA Card  
Case/275 Watt PS

#### • 486 AT BUS

|                  |        |
|------------------|--------|
| AMI 33 MHz       | \$5489 |
| MICRONICS 33 MHz | \$5284 |
| OTHERS 33 MHz    | \$4795 |
| AMI 25 MHz       | \$4158 |
| MICRONICS 25 MHz | \$4059 |
| OTHER 25 MHz     | CALL   |

\*4 MB RAM  
1.2 or 1.44 FD  
100 MB IDE H/D  
1:1 Interleave  
Keyboard 101  
Mid-T Case/230 W  
16 Bit SVGA Card  
14" SVGA Monitor

#### • 386 AT BUS

|                  |        |
|------------------|--------|
| AMI 33 MHz       | \$2308 |
| MICRONICS 33 MHz | \$2280 |
| Other 33 MHz     | \$1804 |
| AMI 25 MHz       | \$2095 |
| MICRONICS 25 MHz | \$2079 |
| Other 25 MHz     | \$1704 |

1 MEG RAM  
1.2 or 1.44 FD  
40 MB IDE H/D  
1:1 Interleave  
Keyboard 101  
AT Case/220 W PS  
16 Bit SVGA Card  
14" SVGA Monitor

#### • AST

|                |        |
|----------------|--------|
| Premium 286    | \$1225 |
| Premium 386    | \$2710 |
| Premium 386/25 | \$3569 |
| Premium 386/33 | \$4265 |

#### • ALR

|               |        |
|---------------|--------|
| ALR-FSX10-386 | \$2020 |
| ALR-FZ225-386 | \$2764 |
| ALR-F233-386  | \$3814 |
| ALR-F33-150   | \$7193 |

#### • COMPAQ

|                |        |
|----------------|--------|
| DeskPro 286M40 | \$2165 |
| DeskPro 386/20 | \$3465 |
| DeskPro 386/25 | \$5235 |
| DeskPro 386/33 | CALL   |

#### • IBM

|                     |        |
|---------------------|--------|
| IBM 55-SX031 386/16 | \$3895 |
| IBM 60-041 286/10   | \$5295 |
| IBM 80-071 386/16   | \$6995 |
| IBM 70-A21 386/25   | \$8995 |
| IBM P70 386/20      | \$7695 |
| IBM P70 386/20      | \$8295 |
| IBM LAPTOP 386/061  | \$5285 |

#### • APPLE

|                         |        |
|-------------------------|--------|
| MAC SE 20 MB, 2 FL      | \$1849 |
| MAC SE/30 1 FL          | \$2549 |
| MAC IICx/40 MB          | \$3575 |
| MAC +/-MAC IICi         | CALL   |
| Apple Laser Writer IINT | \$3199 |

### MOTHERBOARDS

#### • MICRONICS

|                  |        |
|------------------|--------|
| 386-25 MHz/Cache | \$990  |
| 386-33 MHz/Cache | \$1190 |
| 486-25 MHz/Cache | \$2590 |
| 486-33 MHz/EISA  | CALL   |

#### • AMI

|                  |        |
|------------------|--------|
| 386-25/Cache     | \$1137 |
| 386-33/Cache     | \$1275 |
| 486-25 MHz/Cache | \$2675 |
| 486-33 MHz/EISA  | CALL   |

#### • MONITORS

|                            |                 |
|----------------------------|-----------------|
| Monochrome 12"             | \$71            |
| Amber Flat 14"             | \$98            |
| EGA Casper/Relysis         | \$309/325       |
| Seiko VGA CM1440/1450      | CALL            |
| NEC 3D/4D/5D               | \$599/1150/2250 |
| Nanao 9070S/9500S          | \$939/2769      |
| Sony 1390A/1304            | \$624/675       |
| Hitachi CM2085 (1280x1024) | CALL            |
| Comerstone (1600x1280)     | \$1725          |
| Mitsubishi                 | All Models CALL |
| Qume                       | All Models CALL |

#### • PRINTERS

|                       |            |
|-----------------------|------------|
| Panasonic 1624/1124   | \$495/279  |
| Fujitsu DL 3400/5600  | \$425/1259 |
| Okidata 320/321       | \$346/489  |
| Okidata 390/391       | \$489/636  |
| Cannon A50/A65        | \$355/554  |
| Toshiba 351/341SL     | \$899/599  |
| HP Laser Accessories  | CALL       |
| HP Laser Jet III/IIIp | \$1570/960 |
| HP Desk Writer        | \$799      |
| Panasonic Laser 4450  | \$1295     |
| Cannon Laser 811      | \$1750     |
| Seiko Label           | \$180      |

#### • F/HARD DRIVE

|                           |         |
|---------------------------|---------|
| Teac 1.2/1.4 Floppy       | \$69/69 |
| Conner 40MB/All Models    | CALL    |
| ST-251-1, 40 MB 28ms      | \$265   |
| Toshiba MK 134 (44) 25 ms | \$345   |
| Mitsubishi MR535          | \$330   |
| Micropolis 1335 71 MB     | \$539   |
| Maxtor All Models         | SPECIAL |
| CDC All Models            | SPECIAL |

|                                    |         |
|------------------------------------|---------|
| CDC-106 MB/162 MB/385H             | Special |
| Western Digital 40MB               | CALL    |
| Other Brands and Models Not Listed | CALL    |
| NEC 40/150 MB All Models           | CALL    |

#### • DRIVE CARD

|                         |           |
|-------------------------|-----------|
| WD 1003 MM1             | \$99      |
| WD 1006 MM2             | \$115     |
| WD 1006 SR2             | \$135     |
| WD 7000 Fast SCSI       | \$325     |
| WD 10007 ESDI WAH/WA2   | \$175/216 |
| Ultrastor               | \$216     |
| Adaptec 1:1 2322B ESDI  | \$195     |
| Adaptec SCSI 1522/1542B | \$175/265 |
| Future Domain           | CALL      |

#### • VIDEO CARDS

|                              |           |
|------------------------------|-----------|
| Pixel Eng 1024x768 256 Color | \$250     |
| Microfield Graphic           | CALL      |
| Paradise VGA 1024i           | \$254     |
| VRAM 512K/1024i              | \$395/250 |
| ATI VGA 512K                 | \$193     |
| Matheus 1140/Primer          | CALL      |
| Renaissance RVGA1/II         | Special   |
| PixelWorks CA1280-DO8        | Special   |
| Cobra 1 B3 1024x800 (256)    | Special   |
| Image MGR 1024 2- B3         | Special   |
| Orchid ProDesigner II        | CALL      |
| Hercules Graphic Station     | \$830     |

#### • POWER SUPPLY & CASES

|                      |          |
|----------------------|----------|
| AT I/O (2S,2P)       | \$30     |
| AT I/O (2S, 1 P, 1G) | \$30     |
| Vertical Case/Base   | \$198    |
| 230W/275 W           | \$50/120 |
| Elgar (Power Backup) | CALL     |

#### • KEYBOARDS & MOUSE

|                     |         |
|---------------------|---------|
| Keytronics 101      | \$48    |
| Logitech C9 Ser/Bus | \$65/75 |
| Trackman            | \$85    |
| Microsoft           | \$98    |

#### • MODEMS & TAPE BACK-UP

|                        |          |
|------------------------|----------|
| U.S.R HST All Models   | Special  |
| Telebit T1000 (9600B)  | \$694    |
| Telebit T25AA (19200B) | \$959    |
| Hayes/All Models       | CALL     |
| All Laptop Modems      | CALL     |
| Everex 1200/2400 (Int) | \$72/135 |
| Everex 2400 (Ex)       | \$169    |
| Colorado DJ-10         | \$275    |
| Mountain Tape Back-Up  | CALL     |
| Archive Tape Back-Up   | CALL     |

#### • BEST PRICE CHIPS

|                                                                                  |  |
|----------------------------------------------------------------------------------|--|
| DRAM 256-10/8/7 SIMM & SIPP 256K & 1x9/10/8 Co-Processor 287-10, 387-16/20/25/33 |  |
|----------------------------------------------------------------------------------|--|

#### • FAX

|                |       |
|----------------|-------|
| Cannon 20      | \$740 |
| PanaFAX KXF100 | \$645 |
| Ricoh RF920    | \$969 |
| Toshiba 3600   | \$895 |
| Sharp F0230    | \$679 |

#### • PLOTTERS

|                      |      |
|----------------------|------|
| H/P 7550A/7475QA     | CALL |
| Roland DYX/DPX/GRX   | CALL |
| Hitachi              | CALL |
| Numonics Series 5500 | CALL |

### LAPTOPS

#### • TOSHIBA

|                   |             |
|-------------------|-------------|
| T1000 SE/XE       | \$1053/1405 |
| T1200 HB/FB       | \$1565/1365 |
| T1200XE           | \$1975      |
| T1600 20/40       | \$2150/2420 |
| T3100E/40MB       | \$2550/3015 |
| T3200 SX/T3100 SX | \$3196/3595 |
| T5100/100 MB      | \$3795/4480 |
| T5200/100 MB      | \$4695/5006 |

#### • SHARP

|         |        |
|---------|--------|
| PC-4521 | \$1760 |
| PC-252M | \$1889 |
| PC-4602 | \$1265 |
| PC-4641 | \$1915 |
| PC-5541 | \$3629 |

#### • MITSUBISHI

|         |        |
|---------|--------|
| MIT 410 | \$2271 |
| MIT 409 | \$4791 |

#### • COMPAQ

|                    |        |
|--------------------|--------|
| COMPAQ SLT 286 M20 | \$3695 |
| COMPAQ SLT 286 M40 | \$3995 |
| COMPAQ III M20     | \$3295 |
| COMPAQ III M40     | \$3795 |
| COMPAQ 386 M40     | \$5295 |
| COMPAQ 386 M100    | \$6495 |

#### • ZENITH

|                   |        |
|-------------------|--------|
| SuperSport 184/1  | \$1385 |
| SuperSport 184/2  | \$2085 |
| SuperSport 286/20 | \$2935 |
| SuperSport 286/40 | \$3239 |
| SuperSport 386/40 | \$3585 |

#### • NETWORK HARDWARE

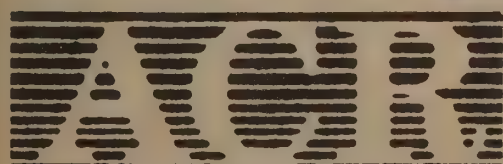
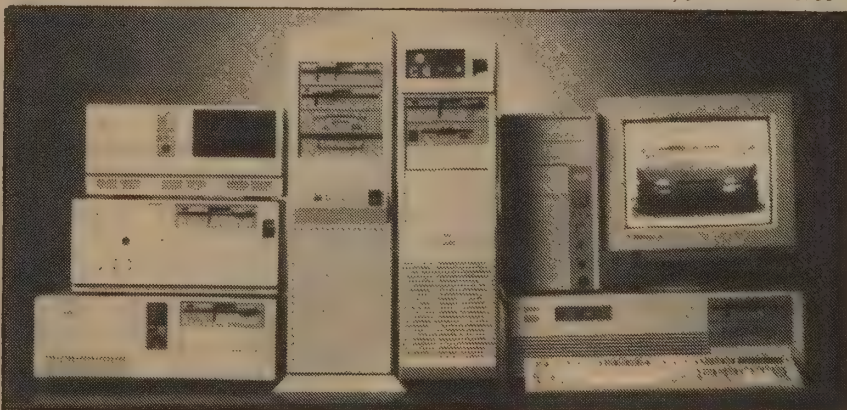
Novell, Gateway, Western, SMC, SCO, Protean, Aquila, 3Com, Synoptics

#### SOFTWARE

|               |      |
|---------------|------|
| ELS Level 1/2 | CALL |
| Netware 2.15  | CALL |
| Xenix, Unix   | CALL |

#### • SCANNERS & DIGITIZERS

|                     |       |
|---------------------|-------|
| Sharp               | CALL  |
| Chinon DS3000       | CALL  |
| Mitsubishi          | CALL  |
| Kurta 12x12 w/Pen   | \$365 |
| SummaGraphics 12x12 | CALL  |
| Hitachipuma         | \$355 |
| Hitachitiger        | \$425 |
| Numonics            | \$476 |



## SYSTEMS

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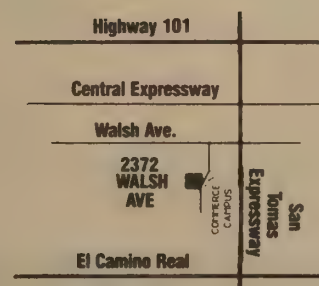
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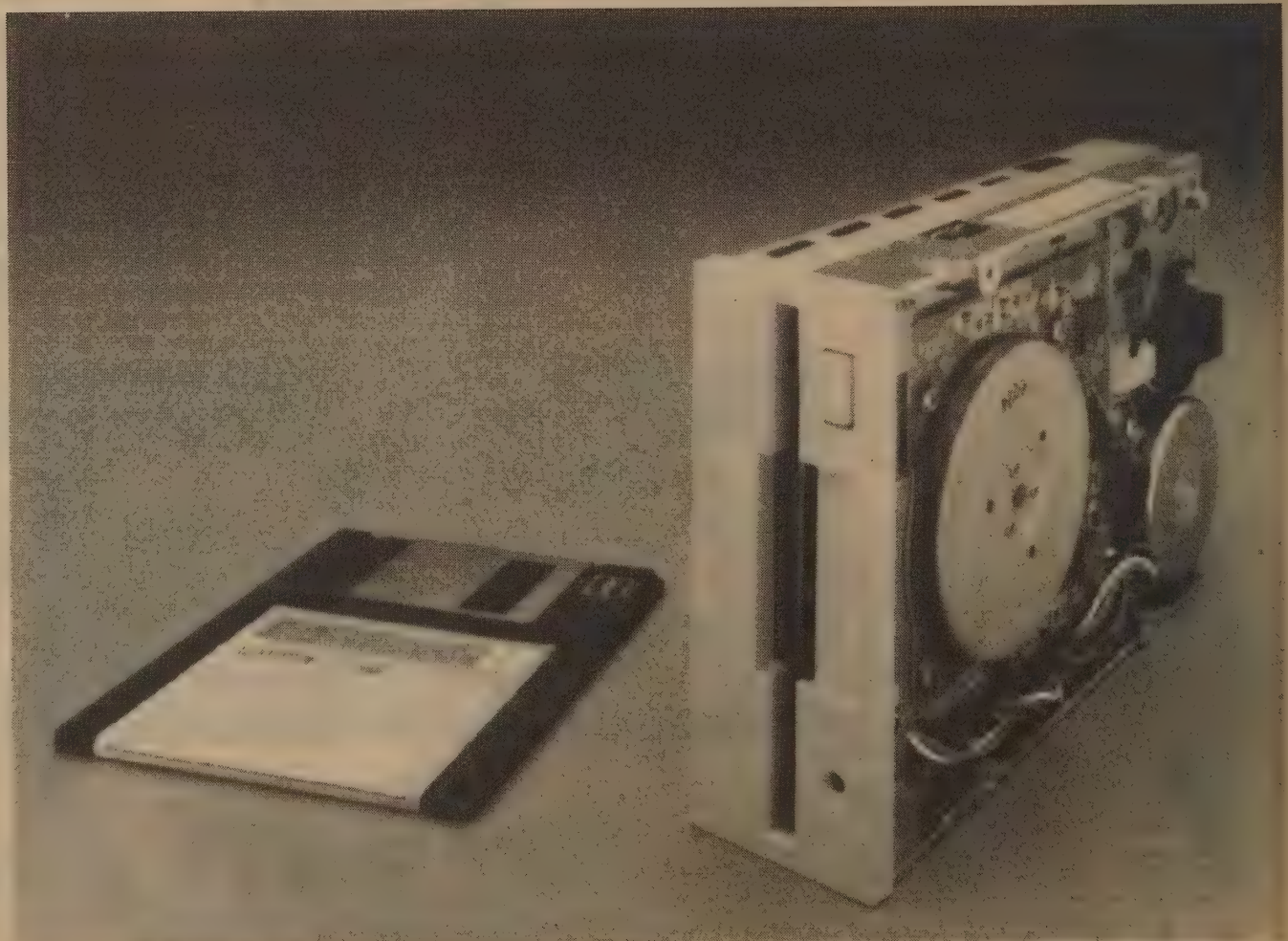
## GIGATREND SUPER FAST DAT

GigaTrend TurboDAT is a 2.5Gb 4mm DAT tape device. Using advanced hardware data compression techniques, TurboDAT can double the storage capacity common to other DAT drives, plus achieving a faster transfer and backup rate. It has a SCSI interface, 5.25" form factor, and is available in both external and internal configurations. The TurboDAT media, with its 2.5Gb data capacity, is a standard DAT cassette the size of a credit card. (Retail price from \$4650 to \$11950) GigaTrend, Inc., 2234 Rutherford Rd., PO Box 4298, Carlsbad, CA 92008. (619)931-9122.

# STORAGE

## 20Mb ON A FLOPPY DISK

The Insite I325VM (Variable Mode) Floptical disk drive is the first 20Mb 3.5" floppy disk drive also able to read and write standard low capacity Double Density and High Density diskettes. This is achieved by merging optical and magnetic recording technologies with the use of low-cost components developed for compact disk recording as well as traditional magnetic floppy diskette drive assemblies. The Floptical is designed to plug and play with existing SCSI host adapters for IBM PC, XT, AT, PS/2, Macintosh and other SCSI-compatible computers. Insite Peripherals, Inc., 4433 Fortran Dr., San Jose, CA 95134. (408)946-8080.



Continued on page 258



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# The 1990 MicroTimes Writers' SOAPBOX AWARDS

Our writers are a pretty independent-minded lot. This one likes Windows, that one likes DESQview. One likes Lotus, one likes Quattro. Whatever the product, ask our writers and you're almost sure to get several conflicting reports. Which is, we think, as it should be.

So when it came time to pick their favorite products for the year, some dutifully named five hardware and five software products. Some invented categories of their own. Some wrote mini-novels on their adventures with the products. And some, of course, announced that they hadn't seen any products in 1990 that were worth recommending to anybody.

Here, then, in all its quirky glory, is our writers' accumulated product wisdom of the year, to entertain and enlighten you on your next shopping trip and in your research in the coming year.

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## ROBERT D. ATHEY, JR.

### Hardware

#### Walkabout/SX 386

Data General Corp.

This laptop computer replaced three others I had!

### Software

#### Quality Analyst

Northwest Analytical

Program for statistical process control

#### Spinrite II

Gibson Research

Hard disk utility

#### Chagunizu

Big Blue

Game

#### Klondike

Big Blue

Solitaire game

## LENNY BAILES

### Hardware

#### Maxtor Hard Drives

Industrial strength!

#### Macintosh SuperDrives

Apple Computer

Now the Apple File Exchange software and these drives, standard on all currently shipping Macs, let us copy MS-DOS or even IIfx ProDOS files to the Mac with no fuss or network hassle.

### Software

DESQview 2.31, QEMM 5.11

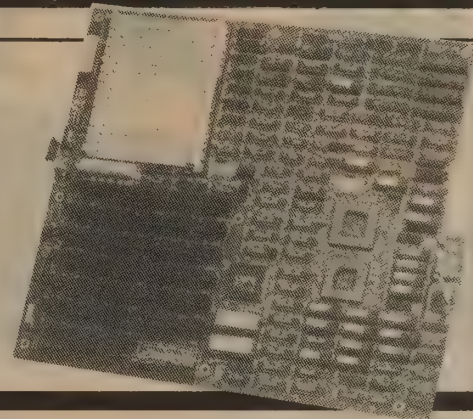


# ATTENTION DEALERS: CALL US FOR YOUR MOTHERBOARD & CASES NEEDS

## CACHE 386-33C

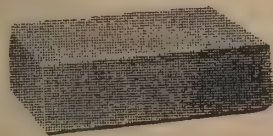
### MAIN BOARD WITH CACHE ON-BOARD DRAM UP TO 64 MB

- PERFORMANCE LANDMARK 0.99 : 58.7 MHz  
POWER METER 1.3 : 8.2 MIPS  
NORTON 4.0 SI TEST : 39.5
- ON-BOARD DRAM UP TO 64 MB
- SHADOW RAM BIOS (16K PARTITION)
- CLOCK SPEED 33 MHz/8 MHz SWITCHABLE
- BUS SPEED 8 MHz/11 MHz SWITCHABLE
- SOCKET FOR 80387 OR WEITEK 3167
- INTEL 386-33 CPU
- TTL CACHE CONTROLLER
- 64K CACHE SRAM
- DRAM: 256K, 1 MB, 4 MB (HYBRID)
- 6 16-BIT, 1 8-BIT SLOT
- STANDARD AT SIZE



#### IW-H103 (AT CASE)

- AT, BABY AT MAIN BOARD
- 5 X 5.25" HALF HEIGHT
- 16.73" X 21.02" X 6.18"
- AT "L" TYPE POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/25.0 LBS.
- MEET FCC REQUIREMENT



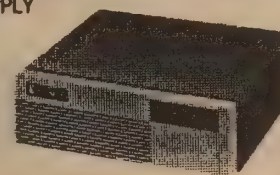
#### IW-A107 (AT CASE)

- AT, BABY AT MAIN BOARD
- 5 X 5.25" HALF HEIGHT
- 16.73" X 21.5" X 6.26"
- AT POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/26.0 LBS.
- MEET FCC REQUIREMENT



#### IW-D13 (BABY AT CASE)

- XT, BABY AT MAIN BOARD
- 5 X 5.25" HALF HEIGHT
- 16.73" X 19.72" X 6.18"
- XT POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/24.0 LBS
- MEET FCC REQUIREMENT



#### IW-B103 (BABY AT CASE)

- XT, BABY AT MAIN BOARD
- 3 X 5.25" FDD, 1 X 3.5" FDD, 1 X 3.5" HDD
- 16.75" X 16.73" X 6.18"
- PS/2 POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/20.0 LBS
- MEET FCC REQUIREMENT



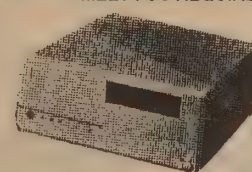
#### IW-B570 (BABY AT CASE)

- BABY AT MAIN BOARD
- 3 X 3.5" FDD, 1 X 3.5" FDD, 1 X 3.5" HDD
- 16.73" X 17.4" X 6.26"
- BABY AT POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/22.0 LBS.
- MEET FCC REQUIREMENT



#### IW-BA77 (BABY AT CASE)

- AT, BABY AT MAIN BOARD
- 3 X 5.25" FDD, 1 X 3.5" FDD, 1 X 3.5" HDD
- 16.53" X 14.26" X 6.68"
- PS/2 POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/20.0 LBS
- MEET FCC REQUIREMENT



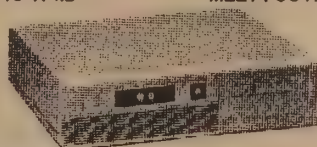
#### IW-K101 (TERMINAL CASE)

- XT, BABY AT MAIN BOARD
- 1 X 3.5" FDD, OR 1 X 3.5" HDD
- 15" X 15.35" X 2.8"
- 70W SPECIAL DIMENSION POWER SUPPLY
- 3 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/15.0 LBS
- MEET FCC REQUIREMENT



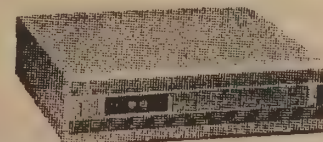
#### IW-E13 (SLIM CASE)

- XT, BABY AT MAIN BOARD
- 1 X 5.25" FDD, 1 X 3.5" FDD, 1 X 3.5" HDD
- 16.5" X 16" X 4.2"
- PS/2 POWER SUPPLY
- 5 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/16.0 LBS
- MEET FCC REQUIREMENT



#### IW-F13 (SLIM CASE)

- XT, BABY AT MAIN BOARD
- 2 X 3.5" FDD, 1 X 3.5" HDD
- 16.5" X 16" X 4.2"
- PS/2 POWER SUPPLY
- 5 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/16.0 LBS
- MEET FCC REQUIREMENT



#### IW-G13 (MINI TOWER CASE)

- XT, BABY AT MAIN BOARD
- 3 X 5.25" FDD, 1 X 3.5" FDD, 1 X 3.5" HDD
- 7" X 16.3" X 15.4"
- PS/2 POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/24.0 LBS.
- MEET FCC REQUIREMENT



#### IW-Q103 (MIDI TOWER)

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- 8 X 5.25" HALF HEIGHT
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- AT "L" TYPE POWER SUPPLY
- 8 SLOT PORTS
- SLIDE IN TYPE
- 1 PC/CARTON/28.0 LBS
- MEET FCC REQUIREMENT



#### IW-T398 (BIG TOWER CASE)

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- SLIDE IN TYPE
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- MEET FCC REQUIREMENT



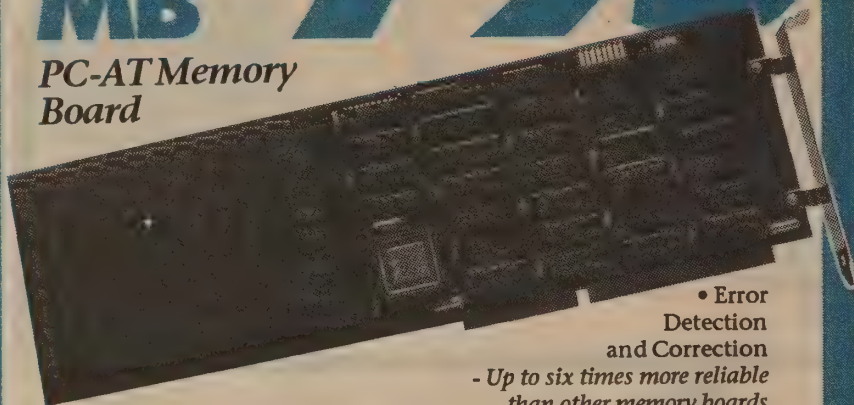
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## The 1990 MicroTimes Writers' Soapbox Awards

### Quarterdeck

Within two months after the release date of the incompatible Windows 3.0, Quarterdeck produced superior memory managers which let Windows run under DESQview on both 286 and 386 platforms.

### Hyperdisk

Hyperware

Hyperdisk is the most talked-about shareware product on both the Windows and DESQview FIDONet echoes. It is a superlative disk cache which outperforms many commercial competitors. Hyperdisk is compatible with Windows 3, and will cache all of your hard disks and floppies. It is written to be compatible with third-party partitioning software like SpeedStor and Disk Manager. (Hyperware, 14460 Sycamore Ave., San Martin, CA 95040)

### SpeedStor

Disk Integration Software

It's nice to be able to press just two keystrokes and have SpeedStor automatically install a large hard drive. SpeedStor can do both low and high level formats. It creates partitions larger than 32Mb under DOS 3.xx. In most cases, you don't have to look up information about heads, cylinders, etc. SpeedStor recognizes what kind of drive you have and makes it bootable while you go off and read a magazine.

### Norton Utilities 5.0.

Symantec

The Norton Disk Doctor brought my cross-linked or unreadable hard drive back from limbo several times this year. The Diskfix utility can recover data from floppies with unreadable sectors. Version 5 of the Utilities has a new feature which can make any hard drive or floppy bootable, by installing DOS system files. This avoids the problems formerly encountered in upgrading or switching from PC to Microsoft DOS.

### Menupict

This is a shareware Macintosh INIT which allows you to capture pulldown menus when you do a screen dump with the Command-3 combination. Really useful for screenshot documentation. (Douglas S. Wyatt, Opcode Systems, 1024 Hamilton Ct., Menlo Park, CA 94025)

heaviest-duty applications, and it's good-natured with a variety of paper sizes and formats. It's also a whole lot easier to haul up and down the stairs than the traditional LaserWriter IIs.

### Macintosh IIfx

Apple

For serious graphics and publishing applications, this is the one. Fast, responsive, and a pleasure to work with.

### Macintosh IIfx

Apple

Apple probably had to discontinue something now that all those new Macs are coming out. Unfortunately, to my way of thinking, this wasn't it. Whether by design or accident, the one we've got here has been chugging along like a champ since the day after the rollout. It has never failed with anything we hooked it up to. True, I have heard the occasional story of a user who had trouble with one, but unless you absolutely need the speed, power and expense of the fx, I'd recommend checking around to see if you can get a good price on the cx your dealer might still have in stock.

### 19" Trinitron Monitor & Spectrum/24 Series III Graphics Card

SuperMac

This is what we've got attached to the fx to make our most heavy-duty workstation. It's sharp, it's fast, it's flicker-free. So far we haven't seen anybody else's 24-bit system that even comes close, at least in terms of being pure pleasure to work with and a boon to the eyes.

### MSF 300Z Color/Gray Scanner

Microtek

Several of us seem to have discovered scanners this year. This is the one we use here. It will turn your paper photo or line art into files your graphics and page layout programs can work with. It does 24-bit color and grayscale scans, and it's so easy to use even an editor can do it.

### Software

#### Adobe Photoshop

Adobe

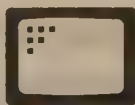
(Truth-in-editorializing disclaimer: Steve Guttman, who used to write for us, went to work for Adobe a couple of years ago. He used to call me up and drop tantalizing hints about this life-changing product he was working on as product manager. This was it. He was right, even though it took six months of enthusiasm from the art department and a photographer friend's deadline crisis to get me to look at it.)

While this product really shines for manipulating digitized photos (Want your ex-SO out of the picture? No problem. Think that image would look better with a paisley background? Piece of cake. Tearing your hair because your best shot has a big scratch on the negative? Smudge it away!), it's also great for working with line art. And if you can use MacPaint, you can use this, even though it's a lot more capable and intelligent (a

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## EISENHART

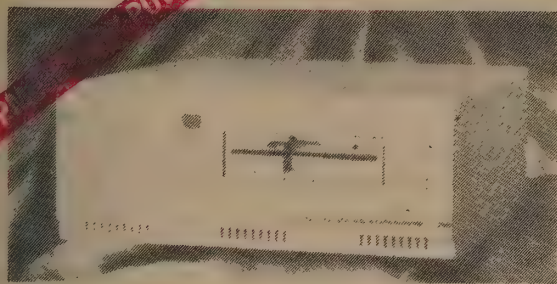
### Hardware

#### Personal LaserWriter NT

Apple

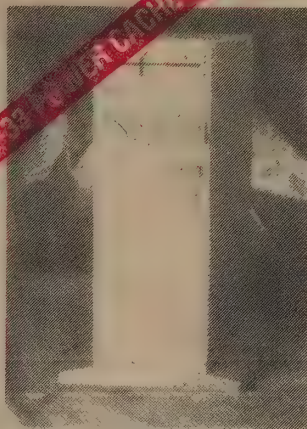
Notwithstanding the name, the PLWNT is perfectly capable of handling the printing requirements of at least small networks as well as individual users. Its output is sharp and clear, its speed well within acceptable range for all but the





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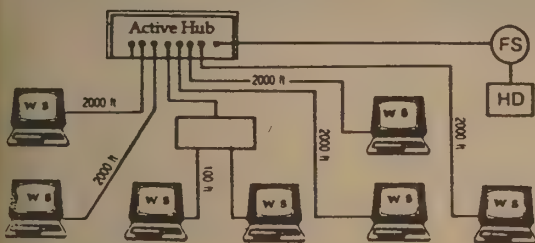
Pacioli 2000 Integrated Network Accounting  
Package (as featured in PC Magazine)

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- PM 286-16 ..... 599
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PC Max

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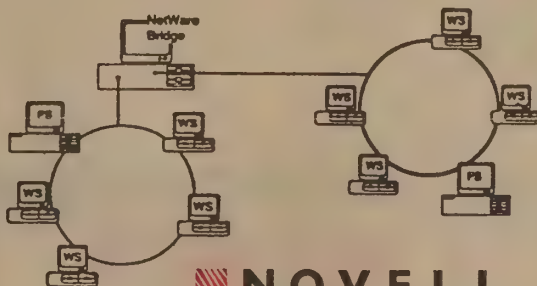
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| Western Digital | 250  | Call | Call | Call  | Call  |
| Mitsubishi      | Call | 305  | Call | Call  | Call  |
| Conner          | 320  | Call | 495  | 575   | 795   |

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| MATH CHIP 80287-8MHZ .....  | 219 |
| MATH CHIP 80287-10MHZ ..... | 225 |
| MATH CHIP 80387-16SX .....  | 289 |
| MATH CHIP 8038716MHZ .....  | 400 |
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| PANASONIC KX1124 .....                 | 295   |
| PANASONIC KX1524 .....                 | 365   |
| PANASONIC KX1624 .....                 | 365   |
| PANASONIC LASER PARTNER KX-P4420 ..... | 925   |
| PANASONIC LASER PARTNER KX-P4450 ..... | 1335  |
| HP LASERJET IIP .....                  | 995   |
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| PARADOX UPGRADE .....            | 139     |
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| PS/2 Model 80-44/80-70                | 3595/4195      |
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| IBM VGA Color 8514/8515 | 985/725  |
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| ProPrinter IIXL/IIIXL   | 395/535  |
| ProPrinter X24/XL24E    | 495/699  |
| IBM Laser 4019-001/E01  | 1565/695 |
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| EXT 1.2 MB for PS/2     | 229      |

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| PS/2 70-A21 2 MB                     | 199      |
| PS/2 80-041 1 MB                     | 150      |
| PS/2 80-111 and 80-311 2 MB          | 385      |
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- YOURVOWN (PF29) Home Inventory.
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### EDUCATION

- MATH TUTOR- Algebra (ED30) by Prof. Weissman, CGA; Calculus (ED29); Geometry & Trig. (ED31) written in Basic.
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- THESAURUS Plus (ED33) Menu-driven. **New**
- VOCABULARY BUILDER (ED23) 7,500 word vocabulary builder and spelling teacher.
- SAN MATEO EDUCATION GAMES (ED32) 22 educational games written in Basic.
- PRE-SCHOOL EDUCATION (ED27) Learn letters, counting and telling time. Incls: ABC Fun Keys, Clock and Mouse Game, Baby Math & Animal Math. CGA.
- PC-CAI v2.0 (ED39) Computer Assisted Instr. Create computer driven tutorials on any subject. CGA
- PLAY 'N' LEARN v2.03 (ED45) Age 18 months +. Great learning and entertainment games.

### GAMES

- EGA GAMES #1 (GM105) Contains Blackjack, Breakout, Asteroids, and Biorym. Great!
- EGA Sorry & EGA Startrek (GM104) Two popular games. EGA.
- 3D-STAR TREK (GM139) CGA.
- FLIGHT SIMULATOR (GM87) Try and fly a 747. 60+ pages of documentation.
- BRIDGE (GM15) Card game.
- MONOPOLY v6.7 (GM89) CGA, (GM151) VGA.
- PACMAN CLONES (GM113) Contains Packgal, Heart, Pacworm & Demon.

- DOS LEARNING SYSTEM (ED42) Interactive tutor of over 300 color screens on DOS basics. CGA, 512K & 2 FD's Req.
- VOCABULARY ROOTS (ED50) Expand your vocabulary with a selected series of root derivations.
- SCHOOL MOM v3.56 (ED55) Great! Ages 4 & up.

### PROGRAMMING

- "C" COMPILER with LINKER and EDITOR, 2 disks (PG33 & 34) Full-featured package.
- TEACH-C (PG20) Interactive C Tutor.
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- EasyCASE v1.55 (PG41 & 42) CASE tool. Create & maintain DFDs, ERDs, transformation graphs, state transition diagrams and structure charts.

- GAMES #5 (GM116) Artillery, Bricks, Chess88 Asteroids, Seawolf, Wallstreet & more.
- TRIVIA (GM129) A fun and challenging trivia board game. Supports up to six players. **New**
- TRIVIA CARD FILE (GM124) 3000 questions.
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- CAPTAIN COMIC V3.0 - EGA (GM119) Fantastic fun game. Adventures with quality graphic animation.

### SPREADSHEET

- ASEASY v4.0M (SP1) Super Lotus Clone. **New**
- PC-CALC+ v2.0, 3 disks (SP16, 17 & 18) New version of Jim Button's famous spreadsheet pgm.
- 123 TUTORS (SP23) Lotus tutor for beginners; (SP24) Advanced Lotus Tutor. Lotus 123 required.

### WINDOWS 3.0

- COMMAND POST (WN10) Makes using Windows 3.0 a lot easier.
- Game of TETRIS (WN4) The most popular game comes to Windows 3.0.
- ICONDRAW (WN112) Icon Editor. Make your own 16-color 32x32 pixel icons.
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## The 1990 MicroTimes Writers' Soapbox Awards

paint bucket that knows what areas it's supposed to fill, for example).

I'd like to see the next version support the standard Mac drawing tools (boxes, ellipses, etc.), because it seems sort of silly to have to import your finished graphic into PageMaker or some such for that kind of embellishment. And, of course, this package is at its best on a system with lots of fast CPU, lots of RAM, and lots of disk capacity.

Possibly Adobe is in league with the various vendors of fast CPU, RAM upgrades, and huge mass storage devices. Because to see and use this product is to be overwhelmed with the possibilities.

### Norton Utilities For Macintosh

Symantec

We swear by SUM and SAM around here to keep our hard disks healthy and virus-free. However, Symantec's acquisition of Norton Computing appears to be making things even better for DOS, Mac, and UNIX users.

Unlike a lot of packages that migrate to Mac from the PC universe, The Norton Utilities were ported with grace and elegance. The interface (unlike its PC counterpart) is positively engaging and makes it easy to find out just about anything you'd want to know about your hard disk and improve its performance.

The package also includes a lot of nice touches in addition to the DiskDoctor program. Including Directory Assistance, which nearly brought

tears to my eyes by presenting me with dialog boxes opened to the last file I used, instead of the one that's at the top of the alphabet in that folder. I've been wanting that ever since I've been using a Mac.

### MicroPhone II v3

Software Ventures

I've been totally dependent on this product ever since it was in beta test...

The online world is fraught with perils and difficulties, especially for us Mac users who come to expect a certain standard of ease of use. MicroPhone, particularly in its latest, most powerful version, makes the power of telecomm accessible and helps you bypass most of the pain and suffering.

### KanjiTalk

APDA

This is Apple's Japanese operating system for the Macintosh. My Japanese is so bad I can barely recognize "Yes" and "No" in a dialog box, but this software adheres so well to the Mac conventions I've come to expect that I was able to install it on several hard disks without benefit of manual or dialog box comprehension. All my US-version Mac applications run in English just fine. Plain old American MacWrite II running under KanjiTalk allows me to mix English and Japanese text in a single document.

Currently the software is only available from the Apple Programmers and Developers Association, perhaps be-

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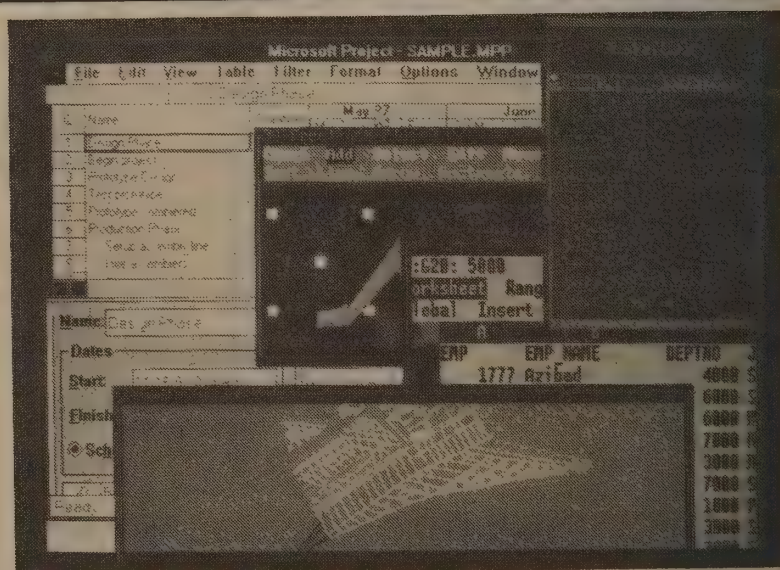
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## Writer Favorites Of 1990



## DESQview 2.31

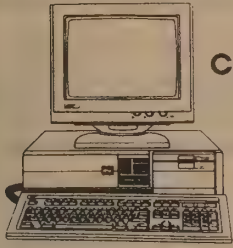
Quarterdeck

Says Lenny Bailes: "Within two months after the release date of the incompatible Windows 3.0, Quarterdeck produced superior memory managers which let Windows run under DESQview on both 286 and 386 platforms."

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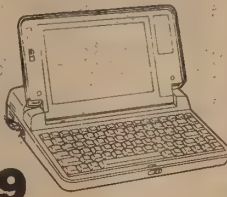
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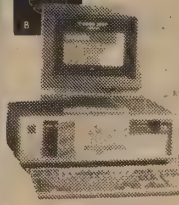
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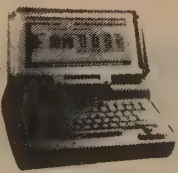
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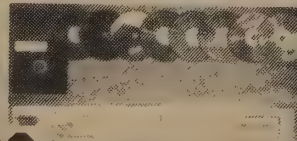
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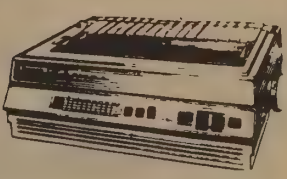
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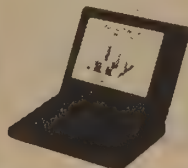
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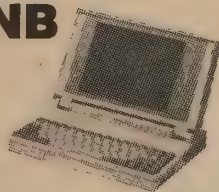


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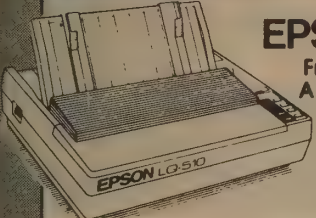
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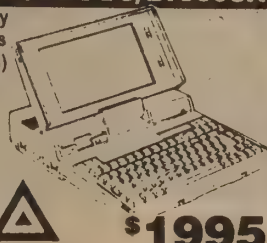


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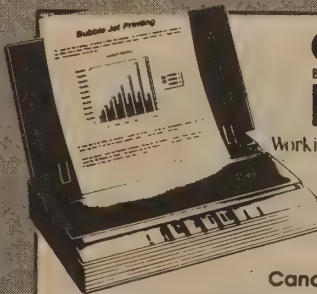


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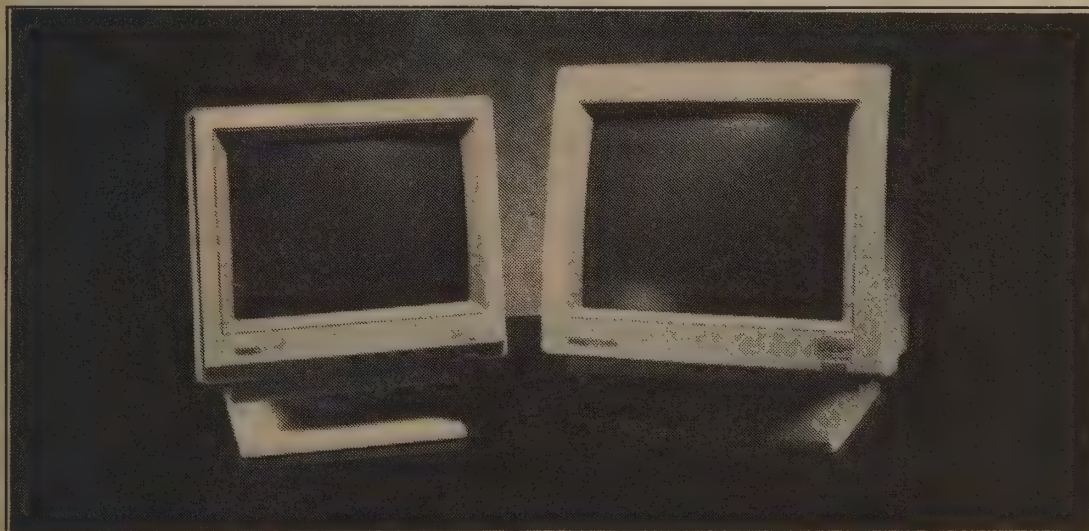
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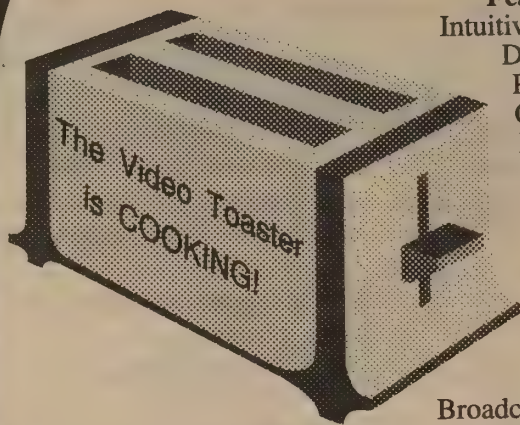


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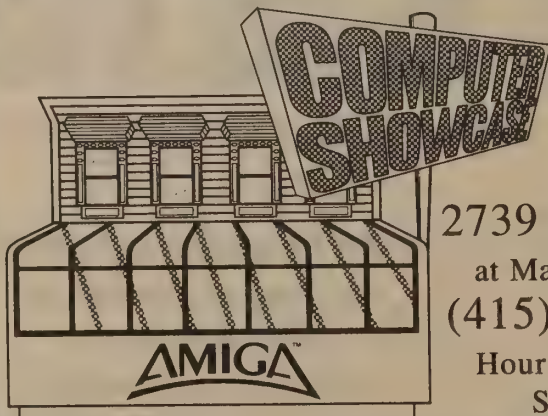
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cause of the difficulty of supporting foreign-language software in the US, and the documentation is sketchy and technical. Nonetheless, this software is a godsend, not only for good-looking international correspondence, but also for students of the language; I suspect Apple could sell quite a bit of KanjiTalk (and incidentally quite a few Macs) on college campuses around the country. I brought the Mac Portable running KanjiTalk to my Japanese class, where it immediately ruined the day of my PC-using classmates who realized they'd have to buy a Mac to run it.

### **Ludwig Van Beethoven:** **Symphony No. 9**

*The Voyager Company*

This is a great interactive learning package, an excellent implementation of what HyperCard makes possible. You're able to explore the life and times of Beethoven by pointing and clicking, and understand the finer points of his music by hearing it as the screen offers illustrations and text-based explanations. If this software is any indication of things to come, it's worth having a Mac and CD-ROM player for this type of software alone.

Voyager has even come up with an elegant solution to the abysmal speed of the current crop of CD-ROM drives (which gets to be a real problem when you're running a CD-ROM-based package like the Whole Earth Catalog or Manhole). The software runs off your hard disk. What's in the CD-ROM drive is simply a commercial, audio-only CD-ROM of the Ninth Symphony. You click, you hear music. You don't have to take the dog for a walk while you're waiting

for the software to load.

Voyager has other packages available and in the works. Check them out. (213/451-1383)

## PAUL HOFFMAN

### **The five best information sources for the PC industry:**

#### **P. C. Letter**

Stewart Alsop's slightly-more-than-monthly newsletter about software that is about to come out, the big picture on integrating systems and software, and honest evaluations on what the customers want from the large manufacturers. (PC Letter, 3 Lagoon Dr., Suite 160, Redwood City, CA 94064, 415/592-8880)

#### **Microprocessor Report**

Too nerdy for many, this gem has the best information on what is happening in the world of CPUs and support chips. No sides are taken, so RISC chips don't seem any "hotter" than the next Intel embedded controller. (Microprocessor Report, 874 Gravenstein Highway South, Suite 14, Sebastopol, CA 95472, 707/823-4004)

#### **PC/Computing**

This is certainly the least expensive of this bunch. The editors have a much better-than-average grasp of what the not-so-thrilled user wants to know and when to cut off an article. There is much less fluff here than in the other maga-

## Writer Favorites Of 1990



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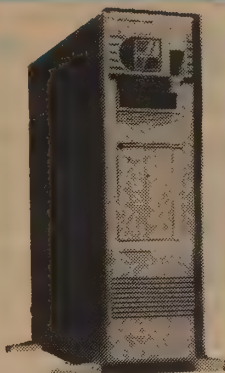


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| 386-33 w/64K Cache | 386SX-20 |
| 386-25 w/64K Cache | 386SX-25 |
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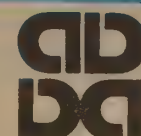
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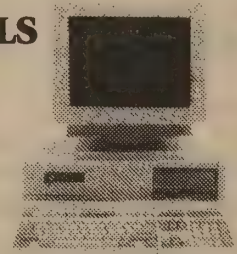
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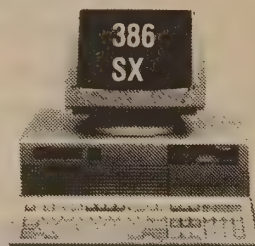
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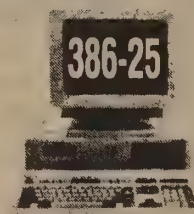


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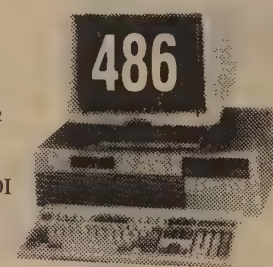


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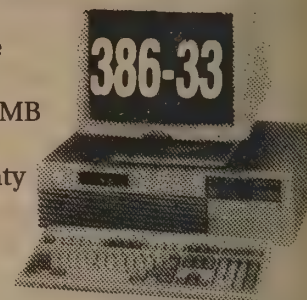
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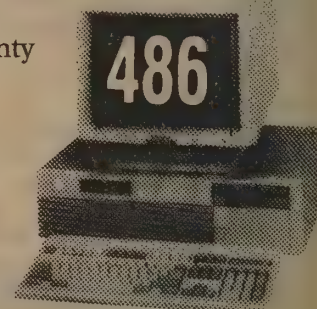
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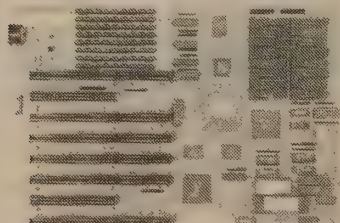
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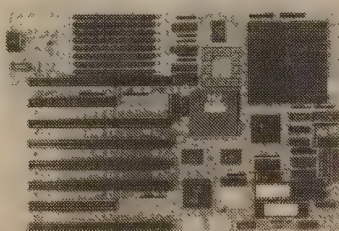
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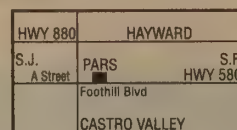
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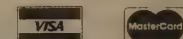
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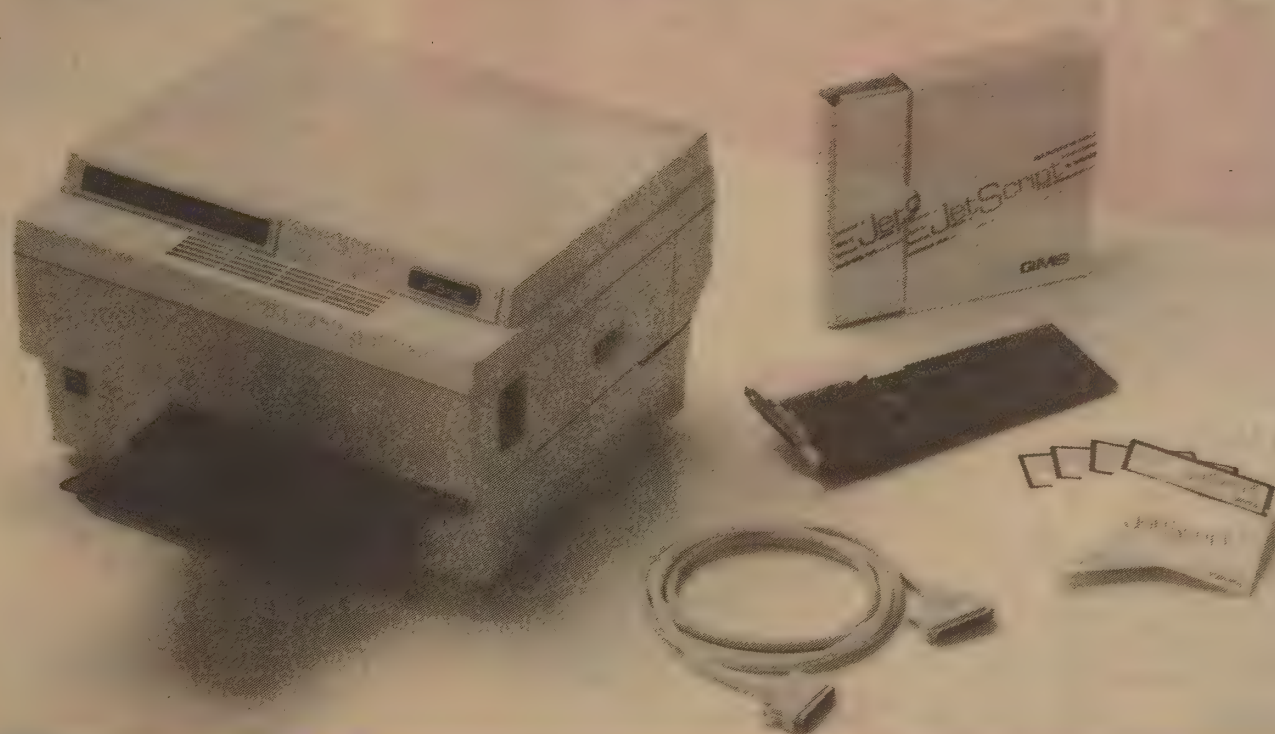


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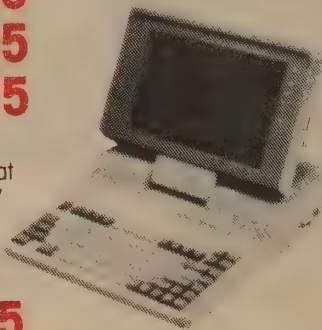
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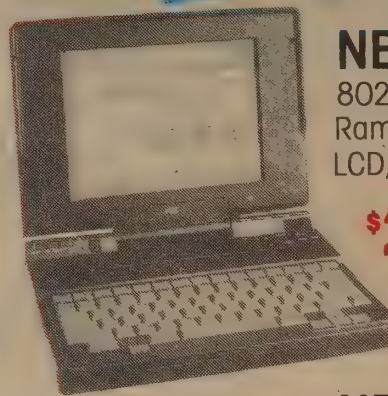
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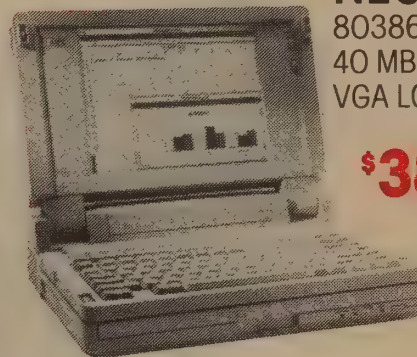
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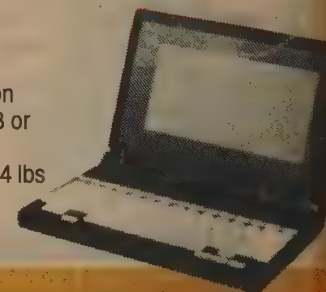


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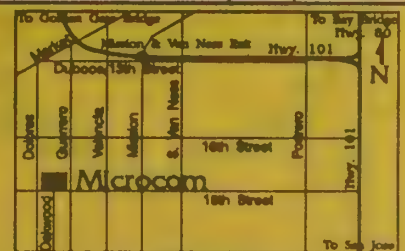
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More nuts and bolts, often very technical, but also much more complete than monthly magazines. A weakness is trying to make the most mundane announcements seem like "news," but it is still the best source for people who have to buy dozens of PCs or Macintoshes at a time. (PC Week, 800 Boylston St., Boston, MA 02199, 617/375-4000)

### User Groups

If you want to know what people don't know, nothing beats your local user group. Every manual writer and technical support person should be required to go, if only to find out what false assumptions are being made in the industry.

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- 1200 baud modems.
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- Computer stores whose technical support staff is unable to talk to rank beginners.

### OmniKey Ultra Northgate

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### Software

#### Grandview Symantec

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#### Quicken, version 4

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#### Windows 3.0

##### Microsoft

This powerful new version will revolutionize the world of PC compatible computing.

#### DESQview

##### Quarterdeck

The new version lets you run Windows, thus allowing you to multitask all PC software, regardless of whether it was written for DOS or Windows.

#### Bootcon

##### Modular Software Systems

An unusual program that lets you set up multiple config.sys and autoexec.bat files. At bootup time, you choose which set you want to run. Will allow up to twenty-six different config.sys autoexec.bat pairs from which to choose. Easy solution to a small problem. (Modular Software Systems, 115 W. California Blvd, Suite 113, Pasadena, CA 91105, 818/794-7602)

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##### Commodore

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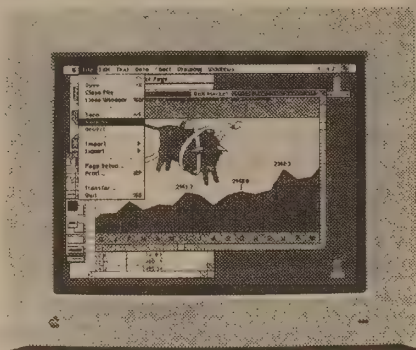
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## The 1990 MicroTimes Writers' Soapbox Awards

adds support for ARC, LHARC, and ZOO, and provides an integrated environment for copying, displaying, and manipulating files. Much easier than CLI commands. (Progressive Peripherals & Software, 464 Kalamath St., Denver, CO 80204)

### Supra Modem 2400

Supra

A great buy. Inexpensive, compact, functional. What else can I say?

### HP DeskJet +

Hewlett-Packard

This is the printer for the home office. It's quiet, affordable, produces great output, and works with every computer made. The latest version, the DeskJet 500, is even better and comes with a new non-smear ink cartridge.

## MIKE

## MARKOWITZ

### Best Apple II products of 1990

A dying computer that's still a billion-dollar-a-year market; a system that clings to a dominant market share in K-12 education, despite Apple's best efforts to kill it off...

1990 has been a grim year for the Apple II and its millions of devoted fans, with a few bright spots amid the gloom:

### Best Hardware Product

#### Apple II High-Speed SCSI Card

Apple Computer, Inc.

The year's only new Apple II hardware product from Apple, this exquisitely engineered low-cost board proves that there are still some tweaks in Apple's labs who can teach an old dog new tricks.

### Best Company

#### Beagle Brothers

While other Apple II developers have stampeded to the Mac, this small outfit has continued to provide amazing utilities and add-on products for thousands of AppleWorks users, while developing a major new paint program for the IIGS. (6215 Ferris Square #100, San Diego, CA 92121, 619/452-5500)

### Best Commercial Software (Creative)

#### Print Shop Companion For The IIGS

Brøderbund

The original Print Shop for the IIGS has become outdated, but this new standalone package is proof that Brøderbund has kept faith with a huge installed base of loyal users. Includes page layout, font editor, label printer, calendar maker and many other useful functions.

### Best Shareware

#### ShrinkIt GS

Andy Nicholas

Continuously improved and well-supported, this delightful file compression and extraction program is a great example of what the IIGS could have been, if Apple had only tried a little harder. (Available on most online services with an Apple II SIG.)

### Best Arcade/Action Game

#### Arkanoid II: The Revenge Of Doh

Taito

It is a bitter irony that game programs for the IIGS cannot be written to Apple's programming guidelines and still have acceptable performance. As game publishers abandon the Apple II market, even conversions of games developed for other computers have stopped appearing. The Arkanoid games are among the few in this category that play and feel right with a mouse rather than a joystick. Great fun.

### Best Macintosh Products Of 1990

### Best Hardware Product

#### DeskWriter

Hewlett-Packard

Only Hewlett-Packard could take the simple, elegant technology of the ink-jet and develop it to a level of performance that compares very favorably to laser printers costing three times as much. In customizing the original DeskJet for the Macintosh, HP shows admirable understanding of the special needs of Mac users. Bravo!

### Best Strategy Game

#### Stratego

Accolade

A sparkling computer implementation of a classic kid's board game. Superb color graphics, but still enjoyable in monochrome.

### Best Software For A Specialized Function From A Little Company

#### TopDown 2.0

Kaetron

Any Mac drawing program lets you make nice flowcharts, but TopDown is a powerful and flexible flowcharting environment. It is well-supported, and closely follows the Mac user interface. Expensive at \$295, but worth it for anyone who has to create a lot of flow charts. (12777 Jones Rd. #445, Houston, TX 77070, 713/890-3434)

### Best Blockbuster Software Product From A Big Company

#### PageMaker 4.0

Aldus

Look at the size of that box! Look at all the stuff inside! PM 4.0 is not just an



# THE SYSTEM OF ULTRA POWER

## 486-25MHz 100MB DISK SONY 1304 VGA SYSTEM

\*US-made high performance system board  
11.4MIPS/LM114MHz  
\*128K external cache (20ns)  
\*4MB RAM standard upgradable to 8MB onboard  
\*1.2MB or 1.44MB Teac floppy drive  
\*101-key enhanced keyboard and 2 serial 1 parallel  
\*Sony 1304 1024x768 VGA display 0.26 dot  
\*1024x768 16bit 512K video adaptor  
\*Conner 3104 100MB 23ms hard disk  
\*2 hard/2 floppy disk controller  
\*Desktop chassis with 220W UL power supply

**\$3595**

\*ONE YEAR WARRANTY ON PARTS AND LABOR

## 386-33MHz 100MB DISK 1024x768 VGA SYSTEM

\*US-made high performance system board  
8.3MIPS/LM59MHz  
\*64K write-back cache upgradable to 256K (20ns)  
\*1MB RAM standard upgradable to 8MB onboard  
\*1.2MB or 1.44MB Teac floppy drive  
\*101-key enhanced keyboard and 2 serial 1 parallel  
\*1024x768 14" super VGA color display  
0.28 dot  
\*1024x768 16bit 512K video adaptor  
\*Conner 3104 100MB 23ms hard disk  
\*2 hard/2 floppy disk controller  
\*Desktop chassis with 220W UL power supply

**\$2295**

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## 386-25MHz 100MB DISK 1024x768 VGA SYSTEM

\*US-made high performance system board  
6.2MIPS/LM44MHz  
\*64K write-back cache upgradable to 256K (25ns)  
\*1MB RAM standard upgradable to 8MB onboard  
\*1.2MB or 1.44MB Teac floppy drive  
\*101-key enhanced keyboard and 2 serial 1 parallel  
\*1024x768 14" super VGA color display  
0.28 dot  
\*1024x768 16bit 512K video adaptor  
\*Conner 3104 100MB 23ms hard disk  
\*2 hard/2 floppy disk controller  
\*Desktop chassis with 220W UL power supply

**\$2155**

\*ONE YEAR WARRANTY ON PARTS AND LABOR

## 386-25MHz 72MB DISK 1024x768 VGA SYSTEM

\*US-made high performance system board  
\*AMI BIOS, C & T Chipset  
\*1MB RAM standard upgradable to 8MB onboard  
\*1.2MB or 1.44MB Teac floppy drive  
\*101-key enhanced keyboard and 2 serial 1 parallel  
\*1024x768 14" super VGA color display  
0.28 dot  
\*1024x768 16bit 512K video adaptor  
\*Micropolis 72MB 28ms hard disk  
\*2 hard/2 floppy disk controller  
\*Desktop chassis with 200W power supply

**\$1995**

\*ONE YEAR WARRANTY ON PARTS AND LABOR

## 386SX-16MHz 42MB DISK HIGH-REZ VGA SYSTEM

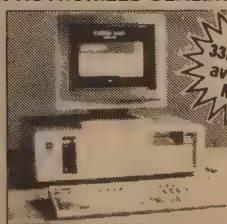
\*US-made high performance system board  
\*AMI BIOS, C & T Chipset  
\*1MB RAM standard upgradable to 8MB onboard  
\*1.2MB or 1.44MB Teac floppy drive  
\*101-key enhanced keyboard and 2 serial 1 parallel  
\*640x480 14" VGA color display 0.31 dot  
\*800x600 16bit 256K video adaptor  
\*Western Digital 42MB 28ms hard disk  
\*2 hard/2 floppy disk controller  
\*Desktop chassis with 200W power supply

**\$1425**

\*ONE YEAR WARRANTY ON PARTS AND LABOR



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- "New" Everex Tempo Systems Available

## 286-12MHz 42MB DISK MONO VIDEO SYSTEM

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\*AMI BIOS, C & T Chipset  
\*1MB RAM standard upgradable to 8MB onboard  
\*1.2MB or 1.44MB Teac floppy drive  
\*101-key enhanced keyboard and 2 serial 1 parallel  
\*Monochrome monitor  
\*Monographic printer card  
\*Western Digital 42MB 28ms hard disk  
\*Everex 2 hard/2 floppy disk controller  
\*Desktop chassis with 200W power supply

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| 386/33MHz 64/256K  | 1150   |
| 386/25MHz 64/256K  | 995    |
| ECS386/25MHz w/CPU | 699    |
| 386SX/16MHz        | 375    |
| 286/12MHz          | 135    |

### HARD & FLOPPY DRIVES

|                                    |       |
|------------------------------------|-------|
| Seagate ST-225 20MB                | \$199 |
| Seagate ST-251-1 40MB              | 299   |
| Seagate ST-4097 80MB               | 565   |
| Western Digital 40 MB w/Controller | 299   |
| Toshiba 44MB 25ms                  | 305   |
| NEC 44 MB 25ms                     | 305   |
| Micropolis 72MB 28ms               | 550   |
| Conner 100 MB IDE 18ms             | 599   |
| NEC 110MB ESDI 18.5ms              | 650   |
| NEC 150MB ESDI 18ms                | 750   |
| Maxtor 150MB ESDI                  | 950   |
| Maxtor 380MB ESDI                  | 1395  |
| Teac 1.2MB                         | 75    |
| Teac 1.44MB                        | 75    |
| Teac 360K                          | 65    |

### CONTROLLER CARDS

|                                     |       |
|-------------------------------------|-------|
| DTC 1:1 RLL 7287AT                  | \$119 |
| DTC 1:1 ESDI 6286                   | 160   |
| Ultrastore ESDI 8K                  | 180   |
| Western Digital Chipset 1:1 MFM     | 73    |
| Everex 1:1 MFM                      | 95    |
| Colorado Int Tape BackUp Controller | 84    |

- One Year Warranty On Parts & Labor
- Prices Subject To Change w/o Notice
- Prices Based On Cash Price

### PRINTERS

|                 |       |
|-----------------|-------|
| Panasonic 1180  | \$169 |
| Panasonic 1124  | 285   |
| Panasonic 1624  | 379   |
| HP LaserJet III | 1599  |

### VGA & EGA CARDS

|                            |      |
|----------------------------|------|
| Everex MGA 256K            | \$60 |
| Everex EGA 256K            | 85   |
| Everex VGA Viewpoint 256K  | 167  |
| Video 7 1024i              | 249  |
| Paradise OEM VGA (special) | 92   |
| EGA 256K                   | 81   |
| CGA w/PARA                 | 36   |
| MGA w/PARA                 | 30   |
| OAK VGA                    | 85   |

### MONITORS

|                                |      |
|--------------------------------|------|
| Hyundai Mono Amber 12"         | \$79 |
| Hyundai 14" EGA 640x350        | 319  |
| ViewPerfect 14" 640x480        | 329  |
| Viewsonic Super VGA 14" 1024   | 425  |
| ViewPerfect Multiscan 14" 1024 | 475  |
| NEC 2A 800x600                 | 465  |
| NEC 3D 1024x768                | 635  |

### NETWORK CARDS

|                        |       |
|------------------------|-------|
| Everex Ethernet 8 Bit  | \$169 |
| Everex Ethernet 16 Bit | 265   |
| LANTASTIC Starter Kit  | 399   |
| LANTASTIC 2MB Card     | 215   |
| Ethernet 8 Bit         | 125   |
| Novell 8 Bit NE 1000   | 195   |

### TAPE BACK-UP

|                         |       |
|-------------------------|-------|
| Everex 40MB Floppy Tape | \$269 |
| Everex 60MB Int Cass    | 629   |
| Everex 60MB Ext Cass    | 699   |
| Everex 60MB Int Cart    | 719   |
| Everex 60MB Ext Cart    | 799   |
| Colorado 40/60/120MB    | 299   |
| Colorado Ext Contr Kit  | 125   |

### MEMORY & MULTIFUNCTION CARDS

|                  |      |
|------------------|------|
| Everex RAM 3000  | \$90 |
| Everex RAM 8000  | 269  |
| Everex RAM 10000 | 149  |

### MOUSE

|                                |      |
|--------------------------------|------|
| Logitech Serial                | \$69 |
| Logitech Bus                   | 75   |
| Microsoft Ser/Bus w/Paintbrush | 119  |
| Microsoft Compatible           | 42   |
| Microsoft Mouse w/Windows 3.0  | 159  |

### MODEMS

|                        |       |
|------------------------|-------|
| Everex 2400 Int.       | \$129 |
| Everex 2400 Int w/MNP5 | 179   |
| Int 2400               | 85    |
| Ext 2400               | 109   |

### ADD-ON CARDS

|                  |      |
|------------------|------|
| AT I/O 2S/P/G    | \$35 |
| Serial Card      | 18   |
| Printer Card     | 18   |
| Game Card        | 19   |
| Everex Magic I/O | 59   |

### CASES

|                            |       |
|----------------------------|-------|
| Baby AT 200 W.             | \$105 |
| Tower AT 220 W.            | 180   |
| Full Size AT 230 W/Digital | 110   |

### POWER SUPPLIES

|            |      |
|------------|------|
| 150W XT    | \$45 |
| 220W AT    | 60   |
| 220W AT UL | 69   |

### KEYBOARDS

|                    |      |
|--------------------|------|
| Lite-On 101 Key    | \$45 |
| Maxiswitch 101 Key | 59   |
| OKI Click 101 Key  | 59   |

### MEMORY CHIPS & MATH CO-PROCESSORS

|             |                                  |
|-------------|----------------------------------|
| <b>DRAM</b> |                                  |
| 1MBx1-8/10  | \$6 <sup>90</sup>                |
| 64Kx4-10    | 2 <sup>50</sup>                  |
| 256K-8/10   | 2 <sup>25</sup> /1 <sup>80</sup> |
| 64K-10      | 1 <sup>80</sup>                  |
| 64K-12/15   | 1 <sup>70</sup> /1 <sup>50</sup> |

|             |       |
|-------------|-------|
| <b>SIMM</b> |       |
| 1MBx9-8/10  | 75/73 |
| 256Kx9-8/10 | 23/20 |

|             |       |
|-------------|-------|
| <b>SIPP</b> |       |
| 1MBx9-8/10  | 76/74 |
| 256Kx9-8/10 | 24/21 |

|                                 |             |
|---------------------------------|-------------|
| <b>INTEL MATH CO-PROCESSORS</b> |             |
| 80287/10MHz                     | 205         |
| 80387-SX16                      | 315         |
| 80387-20/25/33                  | 349/445/555 |
| 80287 10 MHz                    | 205         |

**SCHWAB COMPUTER**

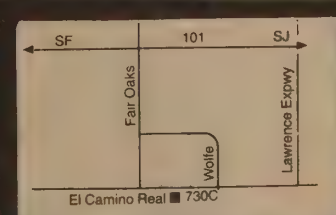
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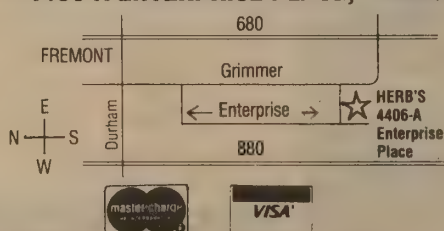
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CASES, HOLD 10 DISKS EACH  
LIMIT ONE PER CUSTOMER  
EXPIRES 1/2/91**

REG. \$2<sup>50</sup>

## The 1990 MicroTimes Writers' Soapbox Awards

accretion of new features heaped onto a complex and sometimes frustrating classic. This major rewrite shows that Aldus listens carefully to its customers and seriously strives to give them what they want and need.

### Best Hardware Solution To A Problem Nobody Had

**Radius Pivot Monitor**

*Radius*

It's a regular monitor for spreadsheets; it's a portrait monitor for page layout. Ooooh, you rotate the screen and it switches effortlessly back and forth between the two modes. Aaaaah, its an expensive yuppie toy for users who still haven't mastered the use of scroll bars and zoom boxes.

### Best Software Solution To A Problem Almost Everyone Had

**Adobe Type Manager**

*Adobe*

It makes many fonts look better on the Mac screen and print better on non-PostScript output devices. It's inexpensive, small in size, and reasonably well-behaved as an INIT in your System Folder. Successive versions have kept getting better. Bo knows everything, but Adobe knows fonts.

### Best Shareware Utility Program

**Compactor v1.2**

*Bill Goodman*

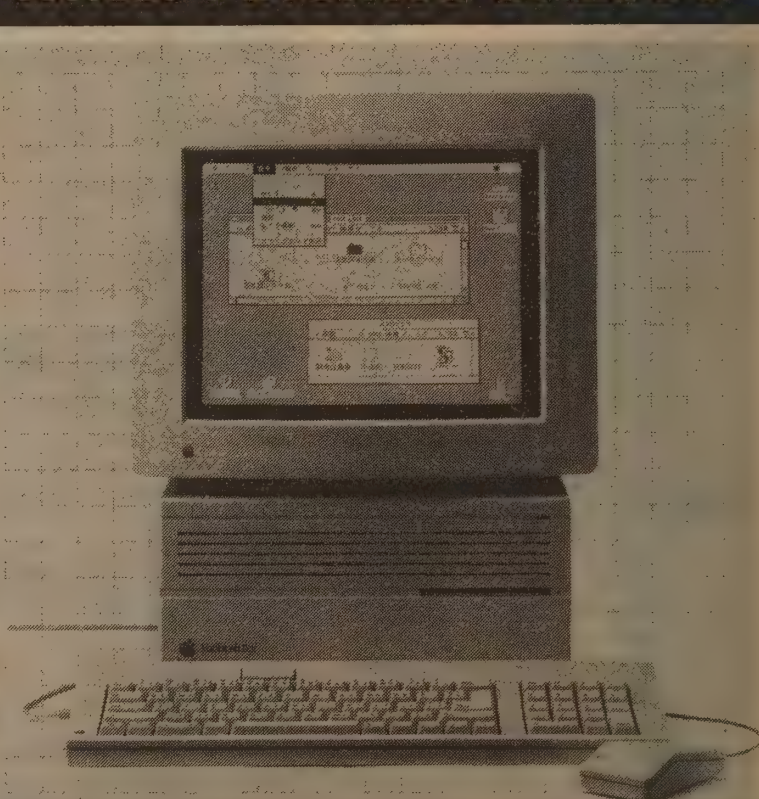
A tiny but powerful file compression and extraction utility that can handle standard Stuffit archives, but offers better performance in some areas. (109 Davis Ave., Brookline, MA 02146. Only \$25!)

### Best Thing From Apple, Coming Soon From Claris

**HyperCard 2.0**

The Holy Grail of personal computing is a magical application that will let non-programmers do programming. Like the non-addictive painkiller, or the honest politician, this "software erector set" is an elusive goal, but HyperCard has come closer than anything else to reaching it. The long-delayed 2.0 release has over one hundred new features, including cards of any size, an icon editor, better script editing and improved printing options. Apple's decision to ship only a run-time version with new Macs while splitting off the full package as a Claris product is typically short-sighted corporate greed, and should not detract from our admiration of what the HyperCard development team accomplished.

## Writer Favorites Of 1990



## Mac IIcx

*Apple Computer*

Discontinued from the product line, this seems to be a hard-working and popular machine in the experience of practically everybody we've talked to. If you can find one, go for it.





# UC Computer

2596 Telegraph Ave.  
Berkeley, CA 94704  
(415) 540-0372

QMS SP-410 Postscript (MAC & IBM).... \$ 2095  
NEC Postscript (MAC & IBM).....\$ 1698  
OKILASER 400.....\$ 699

#### All system comes with

- 1 Meg. Main Memory ●2 Serial 1 Parallel ●Real Time Clock
- 101 Enhanced Keyboard \* AT foot-print case
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ALR BusinessVEISA 386/33 Model 101  
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POWERFLEX 20CSX 386SX-20

\$1548

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64K RAM Cache Memory.....\$1295

MYLEX 386-16SX.....\$ 699

UC 486-33/25.....\$2998 / \$2298

Intel 486-33 / 25 Made in US

8K Internal Cache Landmark 138 / 114

UC 386-33.....\$1200

64K Cache Landmark= 58.7 SI=45.9

UC 386-25.....\$ 948

C&T Set Landmark=34.5 SI=29.5

UC 386-SX.....\$ 648

EMS on Board Landmark=22 SI=21

UC 286-12.....\$ 399

VLSI Chip set Landmark=16

| Video<br>Drive  | Mono<br>720x384 | VGA<br>720x480 | Super<br>VGA<br>1024x768 |
|-----------------|-----------------|----------------|--------------------------|
| 40MB or<br>65MB | +350            | +650           | +750                     |
| 80 MB<br>18 MS  | +550            | +850           | +950                     |
| 105 MB<br>18 MS | +650            | +950           | +1050                    |
| 205 MB<br>19 MS | +1000           | +1300          | +1400                    |

| HARD DRIVE           |      |
|----------------------|------|
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| XT-1085 71MB.....    | 520  |
| XT-4380E 338MB.....  | 1320 |
| ICROPOLIS            |      |
| 1335-71MB.....       | 535  |
| 1355 ESDI 159MB..... | 950  |
| 1558-15 338MB.....   | 1350 |
| OSHIBA               |      |
| MK134FA.....         | 340  |
| MK156FA.....         | 880  |
| ONNER IDE            |      |
| CP3044 40MB 25MS     |      |
| with IDE card.....   | 335  |
| CP3104 104MB 25MS    |      |
| with IDE card.....   | 500  |
| CP3204 204MB 18MS    |      |
| with IDE card.....   | 825  |
| Western Digital      |      |
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| WDC280 80MB.....     | 495  |
| EAGATE               |      |
| 4144R 120MB.....     | 699  |

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| 4090 80MB.....       | 549 |
| 251-1 40MB 28MS..... | 260 |
| 138 3.5" 30MB.....   | 245 |
| 138R 30MB.....       | 229 |
| 125 20MB 38MS.....   | 219 |
| 225 20MB.....        | 199 |

### FLOPPY DRIVES

|                  |    |
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| 3.5" 1.44MB..... | 75 |
| 3.5" 720K.....   | 65 |
| 5.25" 1.2MB..... | 75 |
| 5.25" 360K.....  | 63 |

### CONTROLLER

|                        |     |
|------------------------|-----|
| WESTERN DIGITAL        |     |
| WD 1006V-MM2.....      | 99  |
| WD 1006V-SR2.....      | 110 |
| WD 1007A-SD2.....      | 165 |
| WD 1003V-MM2.....      | 80  |
| WD OEM 1:1 AT MFM..... | 65  |
| DTC                    |     |
| DTC 7280.....          | 75  |
| DTC 7287.....          | 95  |

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| DTC 6280.....  | 130  |
| DTC 5150X..... | 45   |
| All NCL.....   | Call |

287-387

### INTEL

|                      |      |
|----------------------|------|
| IIT, Cyrix, AMD..... | Call |
| 8087-10.....         | 140  |
| 80287-10.....        | 215  |
| 80387-SX.....        | 315  |
| 80387-20.....        | 365  |
| 80387-25.....        | 475  |
| 80387-33.....        | 579  |

### SIMMS-DRAM

|              |       |
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| 64x1-10..... | 1.85  |
| 64x4-10..... | 3.00  |
| 256x9-8..... | 13.00 |
| 256x1-7..... | 2.50  |
| 256x4-8..... | 6.50  |
| 1MBx1-8..... | 6.25  |
| 1MBx9-8..... | 48.00 |

### PRINTERS

#### HEWLETT PACKARD

HP III w/tonner.....1580  
DeskJet 500.....535

#### MEMORY UPGRADES for LASERJET IIP/III

2MB.....190  
4MB.....299  
for LASERJET II  
2MB.....200  
PACIFIC DATA  
POSTSCRIPT IIP.....325  
HPGL.....265  
HEADLINE.....245  
172 FONTS.....265

#### PANASONIC KX-P

1180.....148  
1191.....215  
1124.....269  
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### LASER 800/840....980/1898

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TRACKMAN.....79

##### EVEREX

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2400+.....149  
EXT. 2400E.....179  
EXT. 2400E+.....189

#### MONIOR

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SEIKO 1450.....649

1440.....499

NEC 3D.....619

Panasonic 1381.....415

Nanao 9070U.....1050

ViewPerfect 3.....465

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MAXLOGIC.....145

ATI WONDER w/ Mo.....245

VIEW PERFECT.....188

EVEREX EGA DX.....88

MGP.....18



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## DAVID MORGENSTERN

### The Best Hardware

#### NeXTstation Color

The 16-bit, PostScript color version of NeXTstation. The hard-headed dream machine. Doesn't have any good games—a major problem.

#### Wacom SD-510 Digitizing Tablet

It's not a desk hog, and can be used as a mouse pad when not in use. The cordless pressure-sensitive stylus is awesome, lightweight and elegant. It uses up a serial port, but that's why it runs circles around the turtle-slow ADB tablets.

#### The L-View MultiMode Display

*Sigma Designs*

This monitor toggles between a whole palette of resolutions for different graphic needs: 36, 60, 72, 92, and 120 DPI. As if this wasn't enough, it also meets the Swedish government's strict standards for magnetic emissions.

#### The BMUG Tie-Dyed T-Shirt

It's soft hardware! You'll make a lot of

new friends in this shirt, since everyone wants to talk about BMUG! Available from the BMUG Office for only \$15.

#### The BMUG PD-ROM Version II

It's hard software! Finally shipping is the disk that no CD-ROM player should be without. Available from the BMUG office for \$100.

### The Best Software

#### Boomerang/Super Boomerang

This shareware success by Berkeley author Hiro Yamamoto went commercial a couple of months ago, and is part of the Now Utilities. Boomerang helps you maneuver quickly around your Macintosh. Should be system software.

#### Disinfectant

The freeware virus fighter by Saint John Norstad. Available on BMUG Utilities 8 disk.

#### After Dark

*Berkeley Systems*

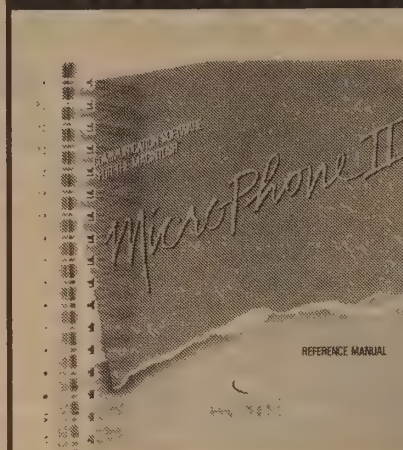
This screensaver turns your Mac into a kinetic-sound sculpture. I like the Fish! and String modules.

#### MicroPhone II

*Software Ventures*

I couldn't get online and love it without

## Writer Favorites Of 1990



## MicroPhone II v3.0

*Software Ventures*

Says BMUG columnist David Morgenstern: "I couldn't get online and love it without this product. It makes CompuServe and GEnie almost bearable."

this product. It makes CompuServe and GEnie almost bearable.

#### Solarian II

*Ben Haller*

This shareware arcade game for the Mac II is commercial quality. I've been trying to persuade my wife that I'm "working" playing this game. She's not buying the story, but you buy the game. Available on BMUG Paris 23 disk.

## JIM WARREN

#### Mac IIcx

*Apple Computer*

In late 1989, I finally moved to a Mac, massively increasing utility and options.

It takes only minutes or hours to learn robust applications software, often with little or no study of manuals. The multitasking operating system is appropriate for my multitasking mind; almost all software works with it. All programs use Mac's huge address-space; all have a uniform, visual, intuitive user/command interface. Its applications use text-and-graphics displays designed for book-reading humans—rather than mono-font ASCII designed for teletype-writers.

When I moved to the Mac, I became a much more efficient *producer*. Prior to that, I was a *programmer*—that is, I used PCs. I proudly pounded them into submission, spending months with manuals, cursing their brain-damaged address-space, memorizing endless conflicting and illogical keyboard commands, and feuding with their equally chaotic hardware that makes somewhat-shaky SCSI look like Pristine Perfection.

I don't miss those years spent in the anarchistic PC Frontier. And there's hope: Windows may civilize it sufficiently for settlers—in another half-decade or more.

#### Borland's Turbo-Stuff

When I simply must work with the PC, I invariably turn to Borland's amazingly low-cost, amazingly high-powered Turbo everything—Assembler, Debugger, C and Pascal. For data, I like its Reflex and Paradox. I especially like Quattro's options—ain't no reason to pay more to support Lotus's litigators.

(The rest of my current favorites are for the Mac)

#### Micronet Disks & MOs

For disks, I'm delighted with the cost, size, speed and quiet of Micronet's

## BIRRELL WALSH

#### Paradox (In all its various versions)

*Borland*

Every time I have to set up a new office, I am pleased with how easy Paradox is to install, how easy it is for people to understand, how powerful it is beneath its friendly face, and how upgrades always really improve it.

#### InfoSelect

*MicroLogic*

The personal information manager of choice if what you want is a very fast, RAM-resident "find that person I met in Hackensack" device. Fast, well-made, and cheap at \$99. (201/342-6518)

#### Current

*IBM*

The PIM of choice for Windows and maybe for all DOS machines. Really good "connectioneering" between items. It is also so customizable you can design it to manage anything from the daily calendar to bibliographies to image files.

#### FAX96

*Fremont Communications*

It's cheap and it works well. For under \$200 you can get both fax board and software. Occasionally in this biz there is a good deal. Fax96 is one.

## Writer Favorites Of 1990



## SpinRite II v1.1

*Gibson Research*

Yacco says of this popular hard disk utility, "The old version would do the improbable. Damn Sherlock Holmes, I have seen this version do the impossible."



## POWERFUL PORTABLES!

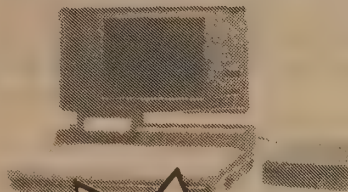
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- Soft Carrying Bag-optional



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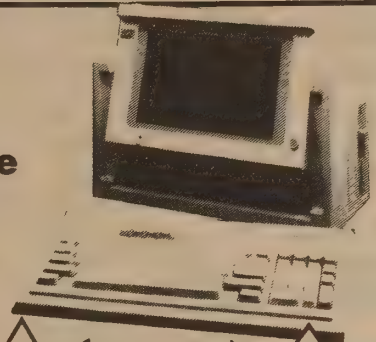
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- Parallel Printer Port
- External Monitor Port
- Soft carrying bag-optional

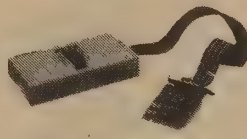


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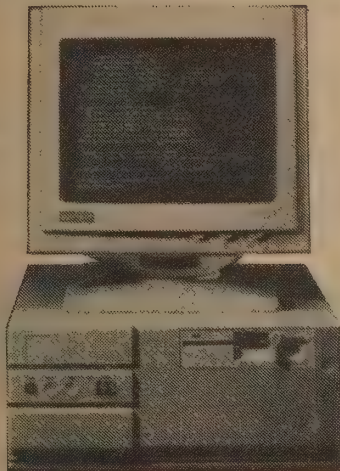
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IC Tester: 74xx, 40xx, 45xx, DRAM

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| EPROM Programmer, EW-901B (1 Port)     | 95    |
| EPROM Programmer, EW-904B (4 Ports)    | 125   |
| EPROM Programmer, EW-701 (1 Port)      | 125   |
| EPROM Programmer, EW-704 (4 Ports)     | 160   |
| EPROM Programmer, EW-708 (8 Ports)     | 235   |
| EPROM Eraser (with Timer, 15 Chips)    | 90    |
| EPROM Programmer, BW-601 (1 Port)      | 185   |
| PAL Programmer PAW-401                 | 235   |
| 8748/49 Programmer UPW-481             | 155   |
| IC Tester (ICT-302, TTL, CMOS, DRAM)   | 125   |
| EPS-011 Expansion Slot (4 Ports)       | 39    |

## COMPLETE SYSTEMS & PERIPHERALS



#### 80286 SPECIALS

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| 286-12 MHz | \$499 |
| 286-16 MHz | 599   |

#### 80386SX SPECIALS

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| 386 SX-16 MHz | \$695 |
| 386 SX-20 MHz | 795   |

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#### 80386 SPECIALS

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| 386/20 MHz | \$995 |
| 386/25 MHz | 1095  |

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| 386-25 MHz  |        |
| w/64K CACHE | \$1295 |
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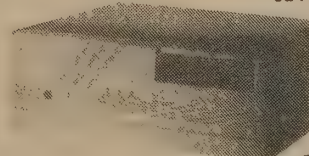
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..... Toshiba, MFM/RLL, ESDI  
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**Printers** ..... Epson, Star, Panasonic, HP LaserJet  
**Mice/Scanners**  
..... Logitech C9, Trackman, Scanman Plus  
..... A4 Color Scanner, DFI Scanner  
**Keyboards** ..... Maxi, Omnikey, Monterey, Ampton  
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| Ethernet 8 Bit                      | \$139 |
| Ethernet 16 Bit                     | 165   |
| Arcnet 8 Bit                        | 89    |
| Arcnet 16 Bit                       | 139   |

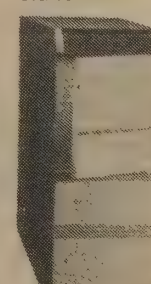
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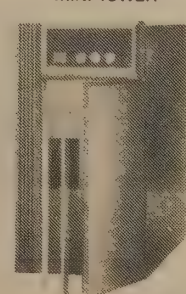
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## The 1990 MicroTimes Writers' Soapbox Awards

Conner 200Mb disk. Its Sony magneto-optical cartridge-drive doubles as both a reliable backup for thousands of files, plus providing a 300Mb-per-side file-space for some of my larger databases (though slower than non-removable Winchester). Its tech support's also unusually candid and knowledgeable.

### Retrospect

Dantz

I have about five thousand files on 900 megs of winnies. For reliable, compact backup, I use Dantz Software Development's Retrospect. It has repeatedly saved me. I especially like its robust user-controlled options (though I'd like to see duplicate-avoidance when archiving numerous floppies, and a user option to save a file-system structure, as well as all unduplicated file contents).

### NEC Monitors

NEC's 20" 5D color monitor's delightful—and Multisync. I simply don't understand why folks pay more for monitors that work with only one or a few video boards or have fewer pixels for present use or future expansion. The 5D works with a whole batch of Mac—and PC—video cards, extending user options and equipment's useful life.

### Abaton InterFax 24/96

One of the most useful optional hardware boxes I have is an InterFax 24/96. It's both a 2400-baud modem and a 9600-baud send-and-receive fax-board, with some of the better fax software currently available—and especially helpful tech support.

### Abaton 300/GS Scanner

The other optional gadget enchanting me is Abaton's grayscale flatbed scanner. It has a SCSI interface (new ones have user-optional termination), and works with both the Mac and PC—

extending user options. There is also an extra-cost Mac Kit with Digital Darkroom or Image Studio. The 300/GS works delightfully with Abaton's 24/96 fax/modem.

### OmniPage

Caere

My primary use for the scanner is to input newspaper clippings and articles—for "modern" filing. Caere's OmniPage is, frankly, far better than I expected from micro-based OCR. It usually recognizes 96%-99%, sometimes hitting 100%. (Its after-OCR checker has a lot of potential, but a poor user design; the spell-checker in any of several word processors satisfies checking needs.) OmniPage is unusually easy to use, has a full spectrum of options under user control, and recognizes a surprisingly broad range of fonts, often including rather scuzzy printing (even paper faxes!).

### OnLocation

ON Technology

Between OCR'ed papers and megabytes of email, news and discussions downloaded from The WELL (Whole Earth 'Lectronic Link; you gotta try it!), jumbled into several hundred files, I don't even try to remember where something is filed. Super-cheap OnLocation (from Mitch Kapor's ON Technology) indexes every word in every document-class I specify—and does it, unnoticed, in the background. Searching for a single word is trivial; I use it almost daily. (I am looking forward to the addition of the ability to search for word-strings as well as independent words.)

### Symantec's Think Pascal & C

For serious programming, Think Pascal & Think C are the most productive systems I've ever used—in over twenty years of programming and all but a Ph.D. dissertation in computing. They

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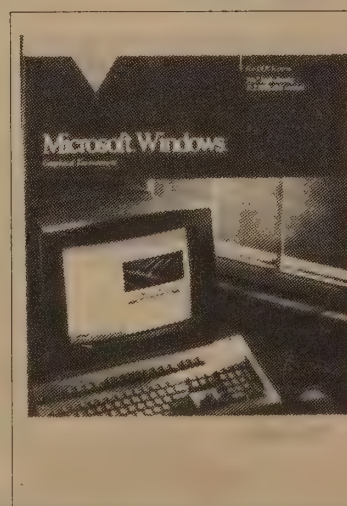


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## Writer Favorites Of 1990



## Windows 3.0

Microsoft

Yacco: "Microsoft finally got it right. One of the most notable things at the Seybold Electronic Publishing Conference this year was the number of great applications that were showing for this environment. It's turned out to be a monster. Of course if they were being honest, they'd admit the earlier versions were betas and call it 1.0."



# IBM COMPATIBLE PRODUCTS

## MOTHERBOARDS

|                         |      |
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| XT8088-10 MHz           | \$68 |
| AT80286-12 AMI-VLSI     | 135  |
| 80386-16SX              | 370  |
| 80386-25 Omti Chip Set  | 590  |
| 80386-25 C & T Chip Set | 665  |
| 80386-25 w/64K Cache    | 850  |

## HARD & FLOPPY DRIVES

|                              |       |
|------------------------------|-------|
| Teac 55 BR 1/2 Ht 360K       | \$69  |
| Teac 1.2 Meg                 | 79    |
| Teac 3 1/2" 720K             | 72    |
| Teac 3 1/2" 1.44 Meg         | 79    |
| Conner CP3104 100 MB IDE     | 525   |
| Toshiba MK234 106 MB IDE     | 525   |
| W.D. 93044 40 MB IDE         | 289   |
| Seagate 3 1/2" 80MB 15ms     | 650   |
| 20 Meg w/Controller          | \$249 |
| Seagate 40 Meg 28ms          | 285   |
| Floppy Controller            | 29    |
| XT 1.2 Meg Floppy Controller | 54    |

## ADD-ON CARDS

|                            |      |
|----------------------------|------|
| 150 Watt P.S.              | 59   |
| AT Keyboard w/Trackball    | 99   |
| Clock Card                 | 29   |
| Serial Card                | 34   |
| Multi I/O                  | 49   |
| MGP DFI w/Color Emulator   | 49   |
| CGA Card w/Printer Adapter | 55   |
| EGA Autoswitch             | 99   |
| Hard Drive Controller XT   | \$59 |
| RLL Controller For HD XT   | 65   |
| Genoa 6300 VGA w/512K      | 195  |

## MONITORS

|                            |      |
|----------------------------|------|
| Amber Monochrome           | \$85 |
| EGA 640x350                | 349  |
| Samsung Gray Scale 640x480 | 155  |
| CTX VGA Multiscan 1024x768 | 459  |
| Samsung 14" Paper White    | 119  |

## MODEMS/FAX

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|--------------------------------|-------|
| 2400 Baud Internal             | \$129 |
| 2400 Baud External             | 139   |
| 1200 Baud Internal             | 65    |
| 1200 Baud External             | 79    |
| Smart Connect 2400 Int         | 99    |
| PerfectFAX Card Send/Receive   | 159   |
| AMS Teleshare                  | 125   |
| Zoltrix Send/Receive Fax Modem | 195   |

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\$65  
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**w/WINDOWS 3.0**  
**\$119**

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|-------------------|--------------------|
| PC XT 5/8/10 MHz  | \$80/125/159       |
| AT 5/6/8/10/      |                    |
| 12 MHz            | 80/129/179/205/259 |
| For 386 16/20/25/ |                    |
| 33 MHz            | 339/399/449/559    |

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## MOUSE & TRACK BALLS

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|------------------------------|---------|
| C9 Logitech Bus, Serial      | \$95/79 |
| IMSI Opti Mouse              | 79      |
| Logitech Trackman Serial     | 95      |
| Color Mouse                  | 45      |
| Genius Mouse 6000 w/Dr. Halo | 55      |
| Mouse Pen                    | 89      |
| Dexxa Mouse (By Logitech)    | 35      |

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| Laser Jet Series IID | CALL   |
| Laser Jet Series II  | \$1175 |
| Laser Jet Series IIP | 1025   |
| Laser Jet Series III | 1625   |
| Desk Jet 500         | 549    |

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|----------------------------------------|-----------|
| 25 Fonts In One/25 In One III          | \$259/329 |
| Plotter In A Cartridge II/IIP          | 229/249   |
| Pacific Page (Post Script) for II/II P | 439/359   |
| Headlines Font                         | 219       |
| Outline Cartridge For LaserJet III     | 215       |
| Pacific Print (for Networking)         | 225       |
| Pacific Mac Page (For LaserJet II)     | 379       |
| Pacific Mac Page (For IIP, IID, III)   | 399       |

## RAM UPGRADES

|                                 |       |
|---------------------------------|-------|
| 1 Meg Upgrade For Laser Jet II  | \$159 |
| 2 Meg Upgrade For Laser Jet II  | 219   |
| 4 Meg Upgrade For Laser Jet II  | \$379 |
| 1 Meg Upgrade For Laser Jet IIP | 159   |
| 2 Meg Upgrade For Laser Jet IIP | 219   |

## EPSON

|        |       |
|--------|-------|
| LX810  | \$195 |
| FX1050 | 439   |
| LQ510  | 335   |
| LQ850  | 519   |
| LQ950  | 569   |
| LQ1050 | 719   |
| LQ2550 | 919   |

## PANASONIC

|        |       |
|--------|-------|
| KX1180 | \$199 |
| KX1124 | 319   |
| KX1624 | 389   |

## CANON

|                              |        |
|------------------------------|--------|
| LBP-8 Mach III Laser Printer | \$1475 |
|------------------------------|--------|

## APPLE COMPATIBLE PRODUCTS

|                             |       |
|-----------------------------|-------|
| 800K Mac Drive              | \$175 |
| 1/2 Ht Apple Compt Drive    | 89    |
| Ile 1/2 Ht Compatible       | 95    |
| II + 80 Column              | 54    |
| Disk Controller             | 42    |
| Ile 80 Column w/64K         | 44    |
| Parallel Interface          | 40    |
| Graphics Parallel           | 52    |
| 16K RAM Card                | 34.95 |
| Super Serial Card           | 65    |
| Ile 1 Meg RAM Board w/256K  | 119   |
| Super Save Fan II, II+, Ile | 25    |
| Numeric Key Pad Ile         | 29    |
| Mac Trap                    | 59    |
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| MODEL                 | MEMORY               | PART NUMBER | LIST PRICE | ATICO PRICE |
|-----------------------|----------------------|-------------|------------|-------------|
| <b>IBM PS/2</b>       |                      |             |            |             |
| 25                    | 128K KIT             | 78X8955     | \$ 50      | \$ 37       |
| 30/286, 50, 80        | 512K KIT             | 30F5348     | \$ 200     | \$ 49       |
|                       | 2MB KIT              | 30F5360     | \$ 795     | \$ 170      |
| 55SX                  | 1MB MODULE           | 6450603     | \$ 450     | \$ 89       |
| 502, 55SX, 80SX       | 2MB MODULE           | 6450604     | \$ 950     | \$ 175      |
| 55SX, 80SX            | 4MB MODULE           | 34F2933     | \$2,195    | \$ 549      |
| 50,                   | 2-8MB EXP BRD w/2MB  | 1497259     | \$1,350    | \$ 575      |
| 502,                  | 2-8MB EXP BRD w/4MB  | 1497259+    | \$2,040    | \$ 725      |
| 55SX,                 | 2-8MB EXP BRD w/8MB  | 1497259+    | \$2,830    | \$875       |
| 65SX                  | 2-8MB EXP BRD w/8MB  | 1497259+    | \$3,620    | \$1,025     |
| 70-E61,               | 1MB MODULE           | 6450603     | \$ 450     | \$ 89       |
| 70-081,               | 2MB MODULE           | 6450604     | \$ 950     | \$ 175      |
| 70-121                |                      |             |            |             |
| 70-A21, A61, B21, B61 | 1MB MODULE           | 6450603     | \$ 450     | \$ 89       |
|                       | 2MB MODULE           | 6450604     | \$ 950     | \$ 175      |
|                       | 4MB MODULE           | 6450608     | \$ 950     | \$ 183      |
| 70-All Models         | 2-8MB EXP BRD w/2MB  | 6450605     | \$1,295    | \$ 479      |
| 80-All Models         | 2-8MB EXP BRD w/4MB  | 6450605+    | \$2,890    | \$ 629      |
|                       | 2-8MB EXP BRD w/6MB  | 6450605+    | \$4,185    | \$779       |
|                       | 2-8MB EXP BRD w/8MB  | 6450605+    | \$5,480    | \$929       |
|                       | 2-14MB EXP BRD w/2MB | 34F3077     | \$577      |             |
|                       | 4-16MB EXP BRD w/4MB | 34F3011     | \$975      |             |
| 80-041                | 1MB BOARD            | 6450375     | \$ 675     | \$ 135      |
| 80-041, 071           | 2MB MODULE           | 6450372     | \$1,295    | \$ 429      |
| 80-A21, A31           | 4MB BOARD            | 6451060     | \$1,895    | \$ 694      |
| 80-All Models         | 1MB MODULE           | 6450603     | \$ 450     | \$ 89       |
|                       | 2MB MODULE           | 6450604     | \$ 950     | \$ 175      |
|                       | 4MB BOARD            | 6450379     | \$ 950     | \$ 249      |
|                       | 4MB MODULE           | 34F2933     | \$2,195    | \$ 722      |
| PORTABLE P70          | 2MB MODULE           | 6450604     | \$ 950     | \$ 175      |
| 4019/E                | 1MB MODULE           | 1039136     | \$ 450     | \$ 139      |
| LASER                 | 2MB MODULE           | 1039137     | \$ 850     | \$ 185      |
| PRINTER               | 3.5MB MODULE         | 1038675     | \$1,495    | \$ 269      |

|                            |                     |            |         |         |
|----------------------------|---------------------|------------|---------|---------|
| <b>COMPAQ</b>              |                     |            |         |         |
| DESKPRO 286E               | 1MB MODULE          | 113131-001 | \$ 450  | \$ 85   |
|                            | 4MB MODULE          | 113132-001 | \$1,950 | \$ 295  |
| DESKPRO 386/16             | 1MB KIT             | 108071-001 | \$ 635  | \$ 85   |
|                            | 4MB KIT             | 108072-001 | \$2,550 | \$ 295  |
|                            | 1-2MB EXP BRD w/1MB | 108069-001 | \$ 650  | \$ 412  |
|                            | 4-8MB EXP BRD w/4MB | 108070-001 | \$2,550 | \$1,236 |
| DESKPRO 386S               | 1MB MODULE          | 113646-001 | \$ 450  | \$ 85   |
|                            | 1MB BOARD           | 113633-001 | \$ 650  | \$ 285  |
|                            | 4MB MODULE          | 112534-001 | \$1,950 | \$ 295  |
|                            | 4MB BOARD           | 113634-001 | \$2,395 | \$ 595  |
| DESKPRO 386/20, 25         | 1MB MODULE          | 113131-001 | \$ 450  | \$ 85   |
|                            | 4MB MODULE          | 113132-001 | \$1,950 | \$ 295  |
| DESKPRO 386/20E, 25E       | 1MB MODULE          | 113131-001 | \$ 450  | \$ 85   |
|                            | 1MB BOARD           | 113644-001 | \$ 650  | \$ 230  |
|                            | 4MB MODULE          | 113132-001 | \$1,950 | \$ 295  |
|                            | 4MB BOARD           | 113645-001 | \$2,395 | \$ 595  |
| DESKPRO 386/33             | 2MB MODULE          | 115144-001 | \$ 950  | \$ 204  |
| DESKPRO 486/25, SYSTEM PRO | 2MB MODULE          | 115144-001 | \$ 950  | \$ 204  |
|                            | 8MB MODULE          | 116561-001 | \$5,195 | \$1,960 |
| PORTABLE 386               | 1MB KIT             | 107651-001 | \$ 650  | \$ 259  |
|                            | 4MB BOARD           | 107653-001 | \$2,395 | \$ 890  |
|                            | 4MB EXT BOARD       | 107654-001 | \$2,395 | \$ 985  |
| PORTABLE III               | 512K KIT            | 107331-001 | \$ 269  | \$ 49   |
|                            | 2MB KIT             | 107332-001 | \$1,100 | \$ 164  |
| PORTABLE LTE               | 512K BOARD          | 117077-001 | \$ 295  | \$ CALL |
|                            | 1MB BOARD           | 117081-001 | \$ 650  | \$ 95   |
|                            | 2MB BOARD           | 117081-002 | \$1,250 | \$ 195  |
| SLT/286                    | 1MB BOARD           | 110235-001 | \$ 650  | \$ 135  |

|                    |             |           |         |         |
|--------------------|-------------|-----------|---------|---------|
| <b>APPLE MAC</b>   |             |           |         |         |
| PLUS, SE, SE30, II | 1MB KIT     | MO218     | \$ 250  | \$ 89   |
|                    | 2MB KIT     | MO219     | \$ 450  | \$ 129  |
|                    | 4MB KIT     | MO2707    | \$ 950  | \$ 239  |
| IIcx               | 4MB KIT     | MO292LL-A | \$ 950  | \$ 259  |
|                    | 4MB MODULE  |           | \$546   |         |
|                    | 16MB KIT    |           | \$6,995 | \$2,685 |
| IIcx               | 1MB KIT     | MO218     | \$ 250  | \$ 89   |
|                    | 2MB KIT     | MO219     | \$ 450  | \$ 129  |
|                    | 4MB KIT     | MO2707    | \$ 950  | \$ 239  |
|                    | 4MB MODULE  |           | \$546   |         |
| IIfx               | 4MB KIT     | MO376LL-A | \$ 950  | \$ 348  |
|                    | 16MB KIT    |           | \$6,995 | \$2,685 |
| PORTABLE           | 1MB KIT     | MO248     | \$ 630  | \$ 434  |
|                    | 4MB MODULE  |           | \$2,499 |         |
| LASERWRITER II/NTX | 1MB EXP KIT | M6005     | \$ 450  | \$ 79   |
|                    | 4MB EXP KIT | M6006     | \$ 950  | \$ 334  |

|                          |                  |            |        |        |
|--------------------------|------------------|------------|--------|--------|
| <b>AST RESEARCH</b>      |                  |            |        |        |
| BRAVO 286                | 128K KIT         | 500510-011 | \$ 50  | \$ 42  |
|                          | 512K KIT         | 500510-010 | \$ 135 | \$ 54  |
|                          | 2MB KIT          | 500510-002 | \$ 345 | \$ 159 |
| BRAVO 386SX              | 512K KIT         | 500510-010 | \$ 135 | \$ 54  |
|                          | 2MB KIT          | 500510-002 | \$ 345 | \$ 169 |
| PREMIUM 286 ADVANCED     | 1MB KIT          | 500510-007 | \$ 260 | \$ 89  |
|                          | 2MB KIT          | 500510-002 | \$ 345 | \$ 169 |
| PREMIUM WS286/WS386SX    | 512K KIT         | 500510-010 | \$ 135 | \$ 54  |
|                          | 2MB KIT          | 500510-002 | \$ 345 | \$ 169 |
| PREMIUM 386SX/16, 386/25 | 1MB MODULE       | 500718-001 | \$ 195 | \$ 89  |
|                          | 1-16MB EXP BOARD | 500722-004 | \$562  |        |

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| MODEL                              | MEMORY           | PART NUMBER | LIST PRICE | ATICO PRICE |
|------------------------------------|------------------|-------------|------------|-------------|
| <b>AST RESEARCH</b>                |                  |             |            |             |
| PREMIUM 386/33                     | 1MB MODULE       | 500718-002  | \$ 195     | \$ 89       |
|                                    | 1-16MB EXP BOARD | 500722-004  | \$562      |             |
| PREMIUM 386/16, 386C               | 1MB KIT          | 500510-007  | \$ 260     | \$ 89       |
|                                    | 4MB KIT          | 500510-008  | \$ 675     | \$ 335      |
| PREMIUM 486                        | 2MB MODULE       | 500718-004  | \$ 850     | \$ 208      |
| PREMIUM 486/25, 25E, 25T, 25TE, 33 | 1MB MODULE       | 500718-002  | \$ 195     | \$ 89       |
|                                    | 1-16MB EXP BOARD | 500722-004  | \$562      |             |

|                              |             |         |         |        |
|------------------------------|-------------|---------|---------|--------|
| <b>AT&amp;T (WGS SYSTEM)</b> |             |         |         |        |
| 6286                         | 2MB UPGRADE | 37727   | \$1,195 | \$ 200 |
| 6386, 6386E                  | 1MB UPGRADE | 37714   | \$ 750  | \$ 105 |
|                              | 4MB UPGRADE | 37716   | \$2,795 | \$ 460 |
| 6386/SX, 6388/25433          | 2MB UPGRADE | 37336   | \$1,195 | \$ 200 |
| <b>EPSON</b>                 |             |         |         |        |
| EQUITY IIc, 386/20           | 1MB KIT     | A808091 | \$ 450  | \$ 142 |
|                              | 1MB KIT     | A808231 | \$ 450  | \$ 142 |
|                              | 2MB KIT     | A808101 | \$ 995  | \$ 212 |
| 386SX                        | 1MB KIT     | A808231 | \$ 450  | \$ 142 |
|                              | 2MB KIT     | A808101 | \$ 995  | \$ 212 |

|                         |          |            |         |        |
|-------------------------|----------|------------|---------|--------|
| <b>HP VECTRA SYSTEM</b> |          |            |         |        |
| VECTRA QS/16S           | 1MB KIT  | D1540A     | \$ 595  | \$ 105 |
|                         | 2MB KIT  | D1354A     | \$1,195 | \$ 162 |
|                         | 4MB KIT  | D1542A     | \$2,495 | \$ 325 |
| VECTRA ES/12PC          | 2MB KIT  | D1354A     | \$1,195 | \$ 162 |
| VECTRA QS/20S, RS/25PC  | 1MB KIT  | D1640A     | \$ 595  | \$ 115 |
|                         | 4MB KIT  | D1642A     | \$2,495 | \$ 342 |
| VECTRA 486PC            | 2MB KIT  | Two D2150A | \$ 595  | \$ 201 |
|                         | 8MB KIT  | Two D2151A | \$2,495 | \$ 750 |
|                         | 16MB KIT |            | \$1,880 |        |

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|--------------------------------|---------------|--------------|------------|-------------|
| <b>HP LASER PRINTER</b>        |               |              |            |             |
| LASER JET II, II.D             | 0MB BOARD     |              |            | \$ 79       |
|                                | 1MB BOARD     | H33443B      | \$ 485     | \$ 119      |
|                                | 2MB BOARD     | H33444B      | \$ 775     | \$ 169      |
|                                | 4MB BOARD     | H33445B      | \$1,450    | \$ 259      |
| LASER JET HP, III              | 0MB BOARD     |              |            | \$ 99       |
|                                | 1MB BOARD     | H33474B      | \$ 485     | \$ 120      |
|                                | 2MB BOARD     | H33475B      | \$ 890     | \$ 175      |
|                                | 3MB BOARD     | H33476B      |            | \$ 278      |
|                                | 4MB BOARD     | H33477B      |            | \$ 329      |
| <b>NEC</b>                     |               |              |            |             |
| POWER MATE 386SX               | 4-8MB EXP BRD |              | \$2,295    | \$ 842      |
| <b>TOSHIBA PORTABLE/LAPTOP</b> |               |              |            |             |
| T1000SE                        | 1MB CARD      | PC14-PA8311U |            | \$ CALL     |
|                                | 2MB CARD      | PC14-PA8312U | \$1,199    | \$ CALL     |
| T1600                          | 2MB BOARD     | PC8-PA8302U  | \$1,190    | \$ CALL     |
| T3100                          | 2MB KIT       |              | \$1,190    | \$ CALL     |
| T3100E                         | 512K KIT      | PC9-PA8340U  | \$ 350     | \$ CALL     |
|                                | 2MB KIT       | PC9-PA8341U  | \$1,190    | \$ CALL     |
| T3100SX                        | 2MB BOARD     | PC15-PA8308U | \$ 950     | \$ CALL     |
|                                | 4MB BOARD     |              |            | \$ CALL     |
| T3200                          | 3MB BOARD     | PC6-PA7137U  | \$1,590    | \$ CALL     |
| T3200SX                        | 2MB KIT       | PC12-PA8307U | \$ 990     | \$ CALL     |
|                                | 4MB KIT       |              |            | \$ CALL     |
| T5100                          | 2MB BOARD     | PC7-PA8301U  | \$1,190    | \$ CALL     |
| T5200/T8500                    | 2MB KIT       | PC10-PA8304U | \$ 950     | \$ CALL     |

|                  |              |           |         |        |
|------------------|--------------|-----------|---------|--------|
| <b>ZENITH</b>    |              |           |         |        |
| Z248             | 2MB MODULE   | Z805-1    | \$1,299 | \$ 389 |
| Z386/20, 25      | 1MB MODULE   | ZA3600-ME | \$ 899  | \$ 95  |
|                  | 2MB MODULE   | ZA3600-MG | \$1,299 | \$ 188 |
|                  | 4MB KIT      | ZA3600-MK | \$2,695 | \$ 160 |
| Z386/33          | 1MB MODULE   | ZA3800-ME | \$ 899  | \$ 95  |
|                  | 4MB KIT      | ZA3800-MK | \$2,695 | \$ 660 |
| SUPERSPORT 286   | 1MB KIT      | ZA180-66  |         | \$ 192 |
|                  | 1MB BOARD    |           |         | \$ 288 |
|                  | 1MB EXP CARD | 7PC-16AC  |         | \$ 215 |
|                  | 4MB KIT      | ZA180-67  |         | \$ 878 |
| SUPERSPORT 386SX | 2MB BOARD    | ZA180-66  |         | \$ 532 |
| TURBOSPORT 386   | 1MB KIT      | ZA3034-ME |         | \$ 332 |

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| <b>APOLLO</b>                         |              |             |            |             |
| DN3000                                | 2MB BOARD    |             | \$2,000    | \$ 995      |
| DN3500, DN4000                        | 4MB BOARD    |             | \$3,000    | \$1,680     |
| DN4500:                               | 8MB BOARD    |             | \$6,500    | \$2,886     |
| <b>DATA GENERAL</b>                   |              |             |            |             |
| AVIION SERIES                         | 4MB BOARD    |             | \$3,000    | \$1,740     |
| <b>DEC</b>                            |              |             |            |             |
| DECStation 2100, DECStation 3100      | 4MB KIT      | MS01-AA     | \$2,500    | \$ 650      |
| VAXStation 3100,                      | 0MB BOARD    | MS42-KA     | \$3,995    | \$1,280     |
| MicroVAX 3100                         | 12MB ADD-ON  | MS42-BA     | \$5,995    | \$1,730     |
|                                       | 12MB EXP BRD |             | \$5,995    | \$2,250     |
|                                       | 16MB BOARD   | MS42-CA     | \$7,950    | \$2,380     |
| VT100 TERM, VT100 BOARD               | 1MB BOARD    | VX10X-MA    | \$ 395     | \$ 315      |
|                                       | 1MB MODULE   | VX10X-MD    | \$ 395     | \$ 299      |
| <b>HP WORKSTATION</b>                 |              |             |            |             |
| HP-9000/200, 300                      | 2MB BOARD    |             | \$2,200    | \$1,080     |
|                                       | 4MB BOARD    |             | \$3,000    | \$1,284     |
| HP-9000/340                           | 4MB BOARD    |             | \$3,500    | \$1,950     |
| <b>SILICON GRAPHICS (IRIS-SERIES)</b> |              |             |            |             |
| PERSONAL 4D/20/25                     | 4MB KIT      | H4C04A      | \$1,650    | \$ 699      |
|                                       | 16MB KIT     | HU9C16B     | \$7,900    | \$2,643     |
| PROFESSIONAL 4D/40/50/70/80           | 4MB KIT      | H4C04B      | \$1,650    | \$ 699      |
| CS/12 TURBO12/16                      | 16MB KIT     | HU9C16B     | \$7,900    | \$2,643     |
| POWER SERIES 4D/120/220/240/280       | 8MB KIT      | H4C08X      | \$3,900    | \$1,906     |
| <b>SUN</b>                            |              |             |            |             |
| 3/60, 3/80, 4/80, SPARC 1             | 4MB OPTION   | X104C, G, H | \$1,895    | \$ 468      |
| 4/110                                 | 16MB OPTION  | X116D       | \$7,700    | \$1,884     |
| SPARC 4/60, 4/330, 4/370              | 16MB OPTION  | X116H       | \$5,600    | \$2,460     |
| 4/330, 4/370                          | 8MB OPTION   | X108E       | \$7,700    | \$ 895      |

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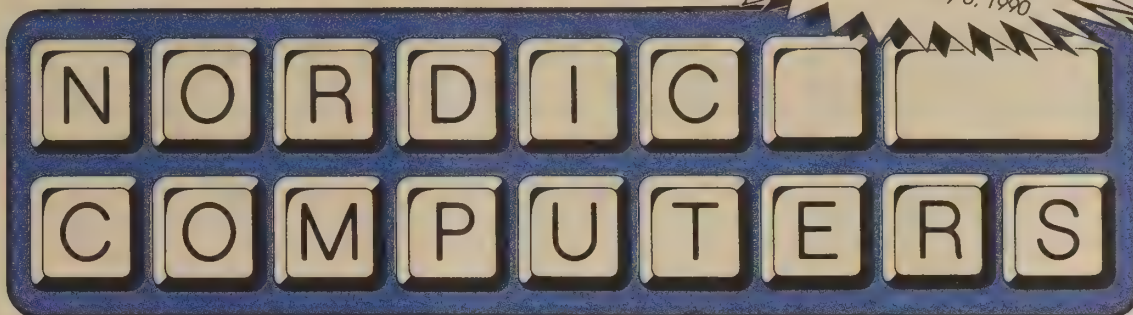
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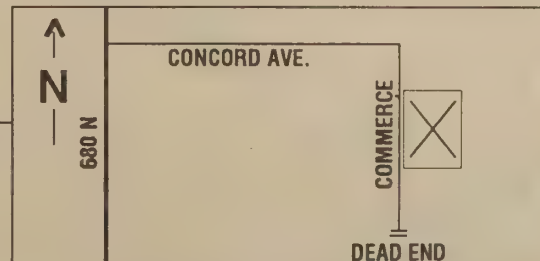
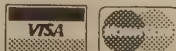
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- Real Time Clock/CMOS Memory w/Battery Backup
- 1.2 or 1.44 MB Floppy Drive
- 40 MB Hard Disk
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 230W Power Supply & Case Holds 5 Drives
- 101 Key Enhanced Keyboard

### **PS** 286 12/16MHz 0 WS with 40MB H/D, 1 MB RAM installed, expandable to 4MB

**12MHz \$650**  
**16MHz \$720**

- 1.2 or 1.44 MB Floppy Drive
- 40 MB Hard Disk Drive
- 2-Floppy & 2-Hard Disk Controller (1:1)
- 101 Key Enhanced Keyboard
- 200W Power Supply
- 8 Expansion Slots & 80287 Math. Chip Socket
- Standard AT-style cabinet
- Real Time Clock w/Battery Backup

### **PS** 25MHz 386 0 WS with 64K Cache with 68MB H/D

**\$1350**

- Landmark Speed = 43 SI = 33
- 1MB RAM Expandable to 16 MB; Memory Support Up To 16 MB Total With Optional Memory Board
- Socket for 80387 & Weitek Math Co-Processor
- 1x32 Bit, 5x16 Bit, 2x8 Bit Slots
- Real Time Clock/CMOS Memory w/Battery Backup
- 1.2 or 1.44 MB Floppy Drive
- 40 MB 17ms IDE Hard Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 230W P/S System Case Holds 5 Drives
- 101 Key Enhanced Keyboard

### **PS** 16MHz 386SX 0 WS with 40MB H/D

**\$900**

- Landmark Speed = 22 SI = 21
- 1 MB RAM On Board Expandable to 8 MB
- 1.2 or 1.44 MB Floppy Drive
- 40 MB Hard Disk Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Key Enhanced Keyboard
- 200W Power Supply & Case Holds 5 Drives
- Real Time Clock w/Battery Backup
- Socket For 80387SX

### **PS** 25MHz 486 Call for Configurations



#### UPGRADES

##### Upgrade MONO to VGA

Trade-In your working monochrome monitor and graphics card (\$100 rebate value) for our .28 pitch 1024x768 Super VGA monitor and 16 bit WD chip set Super VGA graphics controller card.

**\$400**

##### Upgrade XT to AT

Trade-In your working XT motherboard for our Landmark 16MHz 80286 motherboard with 1MB of 80ns memory.

**\$300**

##### Upgrade AT to SX-20

Trade-In your working AT motherboard for our 20MHz 80386SX motherboard with 1MB of 80ns memory.

**\$385**



#### UPGRADES

##### Upgrade AT to DX-25

Trade-In your working AT motherboard for our 25MHz 80386 motherboard, CPU Included, with 64KB cache and 1 MB of 80ns memory.

**\$585**

##### Upgrade AT to DX-33

Trade-In your working AT motherboard for our 33MHz 80386 motherboard, CPU Included, with 64KB cache and 1MB of 80ns memory.

**\$885**

##### Upgrade 20MB to 40MB

Trade-In your working 20MB hard drive system, drive and controller, for our 17ms access 40MB IDE hard drive and controller card.

**\$300**



#### UPGRADES

##### Upgrade 20MB to 80MB

Trade-In your working 20MB hard drive system, drive and controller, for our 17ms access 80MB IDE hard drive and 1:1 controller card.

**\$500**

##### OR

Trade-In your working 20MB MFM drive for our 80 MiniScribe MFM drive.

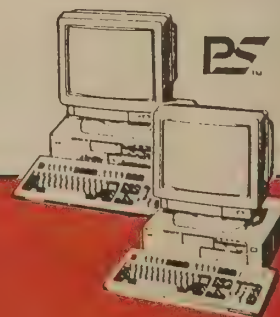
**\$380**

##### Upgrade 20MB to 200MB

Trade-In your working 20MB hard drive system, drive and controller, for our 17ms access 200MB Conner IDE hard drive and controller card.

**\$850**

- 12" Amber Monitor & MGP Card ..... \$78
- 16 Bit VGA Card ..... 79
- 1.44 MB Floppy Drive (Fujitsu or Teac) ..... 68
- 14" VGA Monitor (640x480) ..... 285
- 2400 B. Modem + 4800 FAX Card
- Super VGA Monitor ..... 385
- Super VGA Card ..... 99



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### VGA Plasma 286-12 Portable

#### Display:

- High resolution Gas Plasma Display
- Non-glare screen tilt for 10° or 20° viewing
- 640 X 480 pixel graphics plasma display
- 800 X 600 pixel graphics on external VGA or Multisync monitors
- 16 gray scales shading
- Contrast ratio — 12:1
- Adjustable brightness control
- 80 X 25 character display
- 640 X 480 resolution at VGA mode
- 640 X 350 resolution at EGA mode
- 640 X 400 resolution at CGA mode
- 640 X 348 resolution at HGC mode
- Screen size: 7.75" X 5.75", 10" diagonal
- Adjustable viewing angle
- External VGA/EGA/CGA/HGC standard port, runs external monitor concurrently

**\$1595**

#### System configuration:

- 12 MHz zero-wait state motherboard
- 5 expansion slots available
- Detachable 86-key keyboard w/12 function keys
- Built-in hardware configuration setup program
- 1 MB installed (expandable to 4 MB on board)
- EMS (L.I.M. 4.0) feature built-in on motherboard
- Floppy & hard disk controller
- TEAC 1.2 MB, 5.25" floppy drive
- Total one 3.5" & two 5.25" drive bay available
- One parallel port & one RS-232 serial port
- Intel 80287 math co-processor socket ready
- Landmark® Speed Index: 16; Norton® SI: 13.7
- Support DOS®, OS/2®, Xenix®, Unix®, Novell®
- 110/220V AC auto-switching; 180W power supply

#### Weight & Dimension:

- Approximately 22 lbs (with 1 floppy drive)
- 16.1" (W) X 9.1" (H) X 7.5" (D)

#### Case Features & Accessories

- Reset button, FD/HD & power LED indicators
- Durable carrying case w/ adjustable strap



### VGA PLUS PLASMA 286-12

- 640x480 Gas Plasma
- Simulation 256 color
- VGA and downward compatible
- 10.5" VGA monitor adapter
- 100:1 contrast ratio

**\$1955**

### EGA Plasma 286-12 Portable

#### Display:

- EGA/CGA/HGC/MDA display modes
- 640 X 350, 16 colors on external EGA monitor
- 640 X 350 resolution, 4 gray scales plasma display

**All other specifications are same as VGA model.**

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#### Options:

- |                                                    |        |
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| • 20 MB hard disk .....                            | 195    |
| • 30 MB hard disk .....                            | 225    |
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| • 2 <sup>nd</sup> floppy drive: 720KB/1.44MB ..... | 85/95  |
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| • Memory upgrade .....                             | \$Call |

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- 386-25 MHz - VGA/EGA/CGA.....CALL

**All system specifications are same as VGA model**

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- **Santa Rosa** - Sat. Dec. 29  
Sonoma Co. Fairgrounds
- **Hayward** - Sun. Dec. 30  
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## The 1990 MicroTimes Writers' Soapbox Awards

are amazingly convenient, well-designed editor/compiler—with the most robust debugging facilities I've ever seen integrated into a single programming system. They make the very formidable task of programming a Mac much more palatable—and are amazingly inexpensive (while retaining good tech support).

I'm still looking for really robust desktop publishing programs, and powerful database tools that can handle half-gigabyte files with multiple, variable-length fields per record. This doesn't mean they don't exist; I just haven't worked with any. I'd also want to see the strongest competitors to the preceding goodies—my favorites for 1990.

## WAYNE A. YACCO

### Windows 3.0

Microsoft

Microsoft finally got it right. One of the most notable things at the Seybold Electronic Publishing Conference this year was the number of great applications that were showing for this environment. It's turned out to be a monster. Of course if they were being honest, they'd admit the earlier versions were betas and call it 1.0.

### DeScribe Word Publisher 2.0

DeScribe, Inc.

Forget that the marketing monkeys felt it was necessary to try to create yet another software category. If you're a writer, this is the application that could make it worth investing your life savings in OS/2 and the hardware to run it. And to be fair, there are a lot of publishing applications, like manuals, that DeScribe could probably handle a lot easier than a page-layout program. (916/646-1111)

### Facelift (Speedo Technology)

Bitstream

Finally fonts that look good, print fast, and don't have to fill up the whole hard disk. Works on both the screen and printer in Windows.

### SpinRite II 1.1

Gibson Research

The old version would do the improbable. Damn Sherlock Holmes, I have seen this version do the impossible.

### NeXTDimension

NeXT

A lot of iron: 68040 processor, Megapixel color display, 32-bit video (24-bit color and 8-bit transparency), i860 accelerator, real-time video compression, NTSC or PAL video in and out, JPEG in hardware, print and display PostScript, 8Mb main memory, another 8Mb video memory, 105Mb storage, 400-dot-per-inch printer, SCSI II ports, twisted-pair and thin ethernet ready,

optional optical and CD ROM drives, expandable to 32Mb main memory. Oh yes, and it's all held together courtesy of NeXTstep. (\$14,115)

### Private Eye

Reflection Technology

A 2 oz. device that projects a heads-up display for computers. (An apparent 12" display appears to be floating about two feet in front of wherever you happen to be looking.) It could someday be known as the forerunner of all modern computer monitors.

### Genoa SuperVGA 6000 Series

Genoa's 6400 was the first super VGA board to bring out 70Hz refresh in VGA's 640x480 graphics modes (despite the claims that others make and what you may have read elsewhere). But even at 60Hz, the 6400 provides a rock-steady 1024x768 on a quality monitor like the Sony HG. The 6400/A extends high refresh to the 1024x768 graphics mode also.

### LaserJet III

Hewlett-Packard

The safest bet in printing for good quality at low cost. You get unmatched software compatibility and heavy interest from third-party developers and suppliers. Nothing like a lot of third parties to keep the price of extra features from resisting the pull of gravity.

### ProSpeed SX20

NEC

A fast 20MHz 386SX laptop that has all the ergonomic features to compete with a desktop computer: paper-white VGA LCD, tactile keyboard, 40Mb hard disk, and a docking station for desktop use and expansion. All of the manuals—user guide, DOS, and DOSSHELL—are on disk. It's virtually stress free and still only about 12 pounds.

### PC4

Laser

Thinking about getting one of those little electronic spelling checkers? You can now buy a 2 lb. computer for just a few dollars more. Expected to sell for a little over \$200, the PC4 has sixteen applications (in a 2Mb ROM)—including everything you get in more expensive personal organizers: telephone directory, appointment book, alarm clock, expense account, personal file system, and a spelling checker. It also has a real word processor, spreadsheet and BASIC. Plus, it can transfer data to and from a standard PC (software included) or connect to a modem or printer through a combination port (parallel and serial cables included). Its four-line, 40-character display is a lot more than the organizers have. The only limit is its 32K memory (a 128K replacement chip's available). It runs five hours, or sits six months, on four AA batteries (line-power adapter included). But, on top of all that, a tactile, touch-type keyboard makes this an honestly productive computer. ■



## 386 33MHz 64K CACHE SYSTEM

- AMI BIOS
- IDE Controller
- Teac 1.2 MB or 1.44 MB Drive
- 80387 Socket
- 1 MB Memory
- 64K Cache

- Landmark 58.5
- 2 Serial/1 Parallel/1 Game Ports
- Maxi-Switch 101 Keyboard

**\$1075**

25 MHz  
**\$979**

## 486 25MHz SYSTEM

- AMI BIOS
- IDE Controller
- Teac 1.2 MB or 1.44 MB Drive
- 1 MB Expandable to 16 MB
- 8K Byte Cache & Floating Point Unit
- 128K Second Level Cache (256K Optional)
- Maxi-Switch 101 Keyboard
- 2 Serial/1 Parallel

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MICRONICS  
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## 386 25MHz SYSTEM

- AMI BIOS
- IDE Controller
- Teac 1.2 or 1.44 MB Floppy
- 80387 Socket
- 1 MB on Board Expandable To 8 MB
- 2 Serial/1 Parallel/1 Game
- Landmark 28 MHz

- Maxiswitch 101 Keyboard

**\$839**

ECS  
Motherboard  
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## 16MHz 386SX SYSTEM

- 16 MHz 386SX Motherboard
- 1 MB RAM Up To 8 MB
- 1.2 MB or 1.44 MB Drive
- IDE Controller
- 220W P/S
- Intel Chip Set

- 101 Style Keyboard
- 2 Serial/1 Parallel

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20 MHz  
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- 512K RAM Exp To 4 MB On Board
- 1.2 MB or 1.44 MB Drive
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- 101 Keyboard
- One Year Warranty
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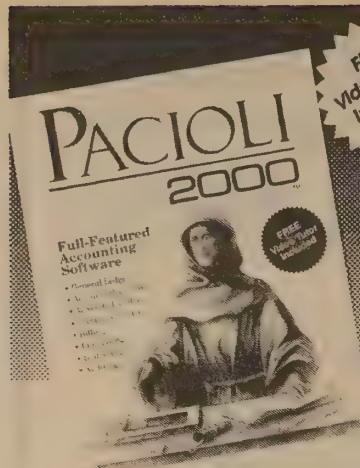
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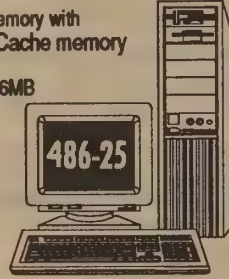
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- Support external Weitek 4167
- 4MB RAM onboard with maximum 16MB
- Eight 16-bit slots
- AMI 486 BIOS w/Shadow RAM
- 1.2MB & 1.44MB FDs (TEAC)
- 2 serial, 1 parallel, 1 game ports
- 1:1 interleave ESDI controller with 32k Cache
- Keytronic 101 keyboard (USA)
- Tower case with 230W P/S



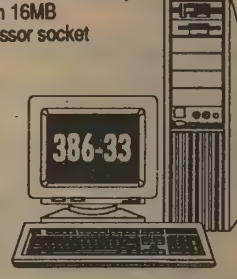
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| 158MB, 14ms - ESDI               | 3,675              | 4,060             | 4,205                       | 4,445               |
| 338MB, 16ms - ESDI               | 4,160              | 4,545             | 4,690                       | 4,930               |
| 768MB, 16ms - ESDI               | 4,660              | 5,045             | 5,190                       | 5,430               |
| * Maxtor Drive * Relisys Monitor |                    |                   |                             |                     |

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**\$1,645**

- Genuine 32-bit Intel 386-33MHz CPU, Lndmk: 58.7MHz
- 33MHz Intel 82385 Cache Controller w/64k memory
- 4MB RAM on-board with maximum 16MB
- 80387 Weitek WTL 3167 co-processor socket
- True OS/2, XENIX, MS DOS, and Novell compatible
- 8 exp. slots (1-32, 6-16, 1-8 bit)
- 1:1 interleave controller or IDE
- Phoenix BIOS
- 1.2 MB & 1.44MB FDs (Teac)
- 2 serial, 1 parallel, 1 game port
- Keytronic 101 keyboard (USA)
- Tower case w/6 HDD and 230W Power Supply
- MS DOS 3.3 or 4.01 included



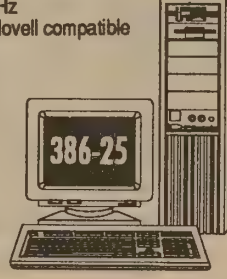
#### STANDARD SYSTEM W/MONITOR & VIDEO CARD

| Monitor & Video Card             | No Video & Monitor | 14" VGA 640 x 480 | 14" VGA Multiscan 800 x 600 | HiRes VGA 1024 x 768 Seiko CM-1440 |
|----------------------------------|--------------------|-------------------|-----------------------------|------------------------------------|
| Basic System -                   | 1,645              | 2,030             | 2,175                       | 2,280                              |
| WITH HARD DRIVE                  |                    |                   |                             |                                    |
| 80MB, 19ms - IDE                 | 2,125              | 2,510             | 2,655                       | 2,760                              |
| 100MB, 25ms - IDE                | 2,185              | 2,870             | 2,715                       | 2,820                              |
| 158MB, 14ms - ESDI               | 2,595              | 2,980             | 3,125                       | 3,230                              |
| 338MB, 16ms - ESDI               | 3,085              | 3,470             | 3,615                       | 3,720                              |
| * Maxtor Drive * Relisys Monitor |                    |                   |                             |                                    |

### MICRO-L 386-25 Business System

**\$1,150**

- 80386-25MHz CPU, Lndmk: 28.0MHz
- True OS/2, XENIX, MS DOS, and Novell compatible
- 4MB RAM expandable to 8MB
- 80387 co-processor socket
- 1.2MB & 1.44MB FDs (Teac)
- HD/2FD IDE controller
- AMI BIOS, NEAT™ Chipset
- 8 expansion slots
- 2 serial, 1 parallel, 1 game port
- Keytronic 101 keyboard (USA)
- 6-drive Baby AT case w/sec. lock, LED indicators, 200W P/S
- Tower Case add \$85



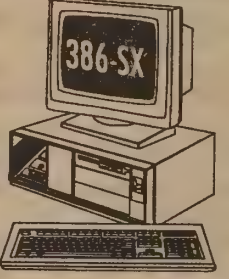
#### STANDARD SYSTEM W/MONITOR & VIDEO CARD

| Monitor & Video Card             | No Video & Monitor | 14" VGA 640 x 480 | 14" VGA Multiscan 800 x 600 | HiRes VGA 1024 x 768 Seiko CM-1440 |
|----------------------------------|--------------------|-------------------|-----------------------------|------------------------------------|
| Basic System -                   | 1,150              | 1,535             | 1,680                       | 1,785                              |
| WITH HARD DRIVE                  |                    |                   |                             |                                    |
| 40MB, 27ms - IDE                 | 1,395              | 1,780             | 1,925                       | 2,030                              |
| 80MB, 19ms - IDE                 | 1,645              | 2,030             | 2,175                       | 2,280                              |
| 100MB, 25ms - IDE                | 1,695              | 2,080             | 2,225                       | 2,330                              |
| * Maxtor Drive * Relisys Monitor |                    |                   |                             |                                    |

### MICRO-L 386-SX Executive System

**\$665**

- 80386/SX-16 CPU runs 16MHz
- 80387 co-processor socket
- 1MB RAM expandable to 8MB
- 1.2 MB floppy drive (Teac)
- True OS/2, XENIX, MS DOS, and Novell compatible
- AMI BIOS, NEAT™ Chipset
- HD/2FD IDE controller
- 8 expansion slots
- 2 serial, 1 parallel, 1 game port
- Keytronic 101 keybd (USA)
- Deluxe baby-AT case with 200W Power Supply



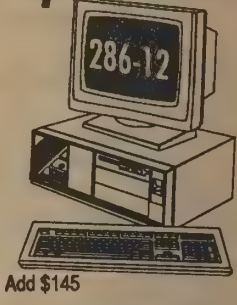
#### STANDARD SYSTEM W/MONITOR & VIDEO CARD

| Monitor & Video Card | No Video & Monitor | 12" Flat Mono 720 x 350 | 14" VGA 640 x 480 | 14" VGA Multiscan 800 x 600 |
|----------------------|--------------------|-------------------------|-------------------|-----------------------------|
| Basic System -       | 665                | 765                     | 1,050             | 1,195                       |
| WITH HARD DRIVE      |                    |                         |                   |                             |
| 40MB, 27ms - IDE     | 910                | 1,010                   | 1,295             | 1,440                       |
| 80MB, 19ms - IDE     | 1,145              | 1,245                   | 1,530             | 1,675                       |
| 100MB, 25ms - IDE    | 1,190              | 1,290                   | 1,575             | 1,720                       |

### MICRO-L 286-12 Desktop System

**\$415**

- 80286-12.5MHz CPU
- 80287 co-processor socket
- 1MB RAM expandable to 4MB
- True OS/2, XENIX, MS DOS, and Novell compatible
- 1.2 MB floppy drive (Teac)
- AMI BIOS, VLSI
- HD/2FD IDE controller
- 8 expansion slots
- 2 serial, 1 parallel, 1 game port
- 101 Enhanced keyboard
- Deluxe baby-AT w/200W P/S
- 16MHz - Add \$99 20MHz - Add \$145



#### STANDARD SYSTEM W/MONITOR & VIDEO CARD

| Monitor & Video Card           | No Video & Monitor | 12" Flat Mono 720 x 350 | 14" VGA 640 x 480 | 14" VGA Multiscan 800 x 600 |
|--------------------------------|--------------------|-------------------------|-------------------|-----------------------------|
| Basic System -                 | 415                | 515                     | 800               | 945                         |
| WITH HARD DRIVE                |                    |                         |                   |                             |
| 40MB, 27ms - IDE               | 665                | 765                     | 1,050             | 1,195                       |
| 80MB, 19ms - IDE               | 895                | 995                     | 1,280             | 1,425                       |
| 100MB, 25ms - IDE              | 940                | 1,040                   | 1,325             | 1,470                       |
| * Quantum drive * Conner drive |                    |                         |                   |                             |

#### MOTHERBOARDS

- 486-25 EISA up to 64MB.....\$2,695
- 486-25 AT w/64K up to 16MB.....\$1,795
- 386-33 w/64K CACHE w/CPU.....\$865
- 386-25 w/64K CACHE w/CPU.....\$765
- 386-25 w/CPU - ECS.....\$595
- 286-16 NEAT - ECS.....\$205
- 286-12 VLSI - ECS.....\$105
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- XT - 10MHz Complete System - Call Config.....\$275

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- PANASONIC KX-P1624 24-pin.....\$342
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- MAXTOR XT-4380E 338MB.....\$1,280
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- MS DOS 3.3/4.01.....\$60
- KEYTRONICS 101 Keyboard.....\$40
- Lite-On Enhanced 101 Keyboard.....\$28
- TOSHIBA Laptop.....Call
- Memory Chips.....Call for Best Price!

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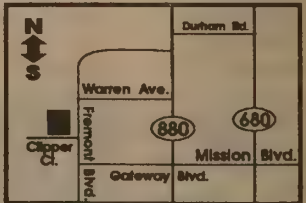
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# Software Stocking Stuffers!

There is still time to do that last-minute Christmas shopping for the computer user at your house! Check out these great values on software that you won't find anywhere else! These software packages are manufacturer closeouts that have either been discontinued or superseded by later versions. They are new, still in the shrink-wrap and come with a user's manual. They also come with a fantastic price! Some titles are limited in quantity, so don't delay!

## Desktop Publisher \$49.00

**IMSI Desktop Publisher** (formerly called Page Perfect) for the IBM AT, PS/2, or compatible model computers (286 or above). Includes word processor that emulates most WordStar or MultiMate commands. Can import from other word processors, and includes spelling checker, hyphenation and thesaurus. Includes 88 Bitstream Fonts (\$395.00 value!) with many attributes, manual or automatic kerning, extended character support and symbol library. You can add hundreds more fonts with the included Bitstream Fontware feature. Scanning Software (included!) supports Microtek, Ricoh and Canon scanners. Supports Laser Jet, Epson, NEC, IBM and Toshiba dot-matrix printers, and many popular mice. EGA, VGA or Hercules compatible. Page Layout software can do multiple columns or rows, and store or add graphic images to your page. All this and much, much more for only \$49.00

## Desktop Graphics \$24.95

**IMSI Desktop Publisher's Graphics** Graphics Editor for IMSI Desktop Publisher Program. Virtual Page for 300 dpi editing resolution. Fast, easy layout. Twentyone Font styles, most with no size limits. Print text at any angle. Enhanced drawing tools, coordinate displays, snap grids, image scaling & rotation, pixel editing. List \$195.00, now only \$24.95

## "C" Graphics Tools \$24.00

**TurboHalo Graphics Tool Kit for "Turbo-C"** Supports Laser Jet Printers and Plotters as well as Apple Imagewriter and other dot-matrix printers. Supports up to 16 colors on EGA, as well as CGA and Hercules Mono. Comes with 150 Graphics Primitives, supports most popular input devices. Only \$24.00

## Dr. Halo III \$20.00

**Dr. Halo III Paint Program** by IMSI can be used as a page composition (mini-Desktop Publisher!) and graphics presentation tool. Merges text and graphics, features over twenty typefaces with attributes. User controlled color management, "lasso" selection, aspect ratio correction for WYSIWYG printing, and X-Y coordinate cursor display. Requires DOS 2.1 or above. All for \$20.00!

## Spelling Checker \$9.95

**Turbo Lightning** by Borland. Sure, you can proof a text document with the spelling checker that came with your word processing software or use the thesaurus to find a different word, but what if you are working in a spreadsheet? Or a database? With Turbo Lightning, your resident spelling wizard is there all the time! At the touch of a hotkey, you will be presented with a pop-up menu that will suggest the spelling you are looking for, or an alternate word if you are trying to avoid being repetitive. Turbo Lightning uses the 80,000 word Random House Concise Word List as its reference, and you can add words to its vocabulary, so that names and addresses do not attract its attention. That is just the beginning, however, since this is the first in Borland's Turbo Lightning Library, an electronic reference library that will tie into other planned products like encyclopedias, specialized dictionaries, etc. Requires PC, XT, AT or compatible, 256K RAM, 2 Floppies, DOS 2.0 or higher. Hard Drive recommended. Only \$9.95!

## Business Graphics \$19.95

**The Magician** by IMSI is an integrated business and presentation graphics program that can prepare your charts, graphs and slide shows quickly and easily, exchanging files with Lotus 1-2-3, WordPerfect, MicroSoft Windows, Pagemaker, Ventura and others. There are many chart and graph types that can be created, as well as a freehand graphics (paint) editor. A large palette of colors and textures, as well as numerous drawing options and fonts give your business graphics that custom touch. Supports EGA, VGA or CGA. Requires 512K RAM and a hard disk, mouse recommended. Supports most popular mice, digitizers, plotters and printers. \$19.95

## Beginner's Bundle \$29.00

**PFS: First Choice** integrated multi-purpose software is the perfect choice for people new to computers who want to be productive yet don't want to become a computer expert. The package contains the four applications used most frequently in business, integrated into one easy-to-use program. The word processor has a built-in spelling checker, a spreadsheet is included for business analysis and examination of various "what-if" scenarios, a file management program will help you keep track of information and organize your files, and a communications package will allow you to "talk" to another computer or hook up to computer services like Dow Jones or MCI Mail (modem required). A Quick Tour starter guide is included to help you get up to doing real work in under an hour, and help is only a keystroke away! The learning materials are written for the person with no computer experience. Works with over 60 printers, and supports popular mice. \$29.00

## Mac Print Spooler \$12.95

**LaserSpeed** by Think Technologies will let your Macintosh spool its print jobs so you can perform other activities while printing. You can queue multiple documents, prioritize them, and get pop-up reminders as your print jobs are completed. LaserSpeed prints to any printer on your Appletalk network, loads automatically and is always instantly available as a Desk Accessory. Runs on Mac 512, 512E, Plus, and XL. Compatible with Pagemaker, TOPS, MacServe, InBox, etc. \$12.95

## Mac Pascal Kit \$29.00

**THINK's Lightspeed Pascal** for Macintosh is the professional's choice of Pascal program development environments. It features a fast compiler and linker, multi-window text editor, an unmatched source level debugger and a project manager that keeps track of your files, all in one integrated environment so you don't have to learn separate tools when what you really want to be doing is programming. The extremely fast compiler (up to 44,000 lines per minute on a Mac SE) generates tight, efficient code, and the test editor formats your code automatically, catching syntax errors as you type. You can create applications, desk accessories, device drivers, and any kind of code resources, including XCMD's. All this programming power for just \$29.00!

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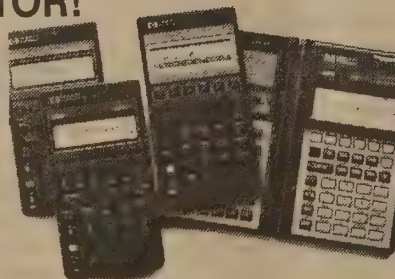
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## MICROTIMES 1991 NC COMPUTER RESELLER GUIDE

Continued from page 100

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**Operating Systems Supported:** MS-DOS,  
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**Leading Brands Sold:** Toshiba, NEC, Sharp  
**Special Value Added:** Service, training, toll  
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Laser Printer Applications David Maas  
**Operating Systems Supported:** MS-DOS,

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**Leading Brands Sold:** Hewlett-Packard,  
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**Leading Brands Sold:** Zenith, Motorola

**Special Value Added:** Training, modem  
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**Leading Brands Sold:** Impulse, ATR, DFI

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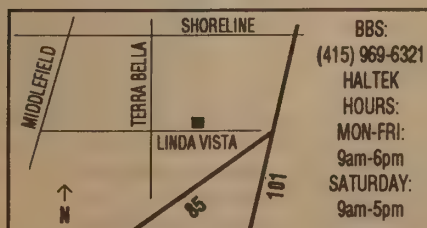
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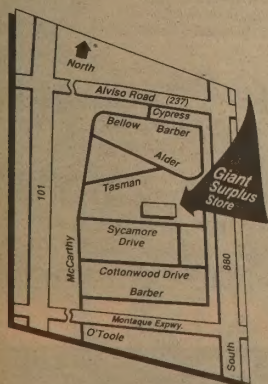
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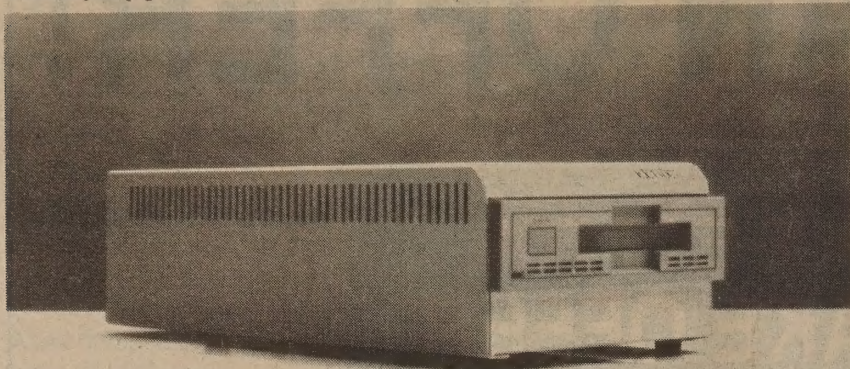
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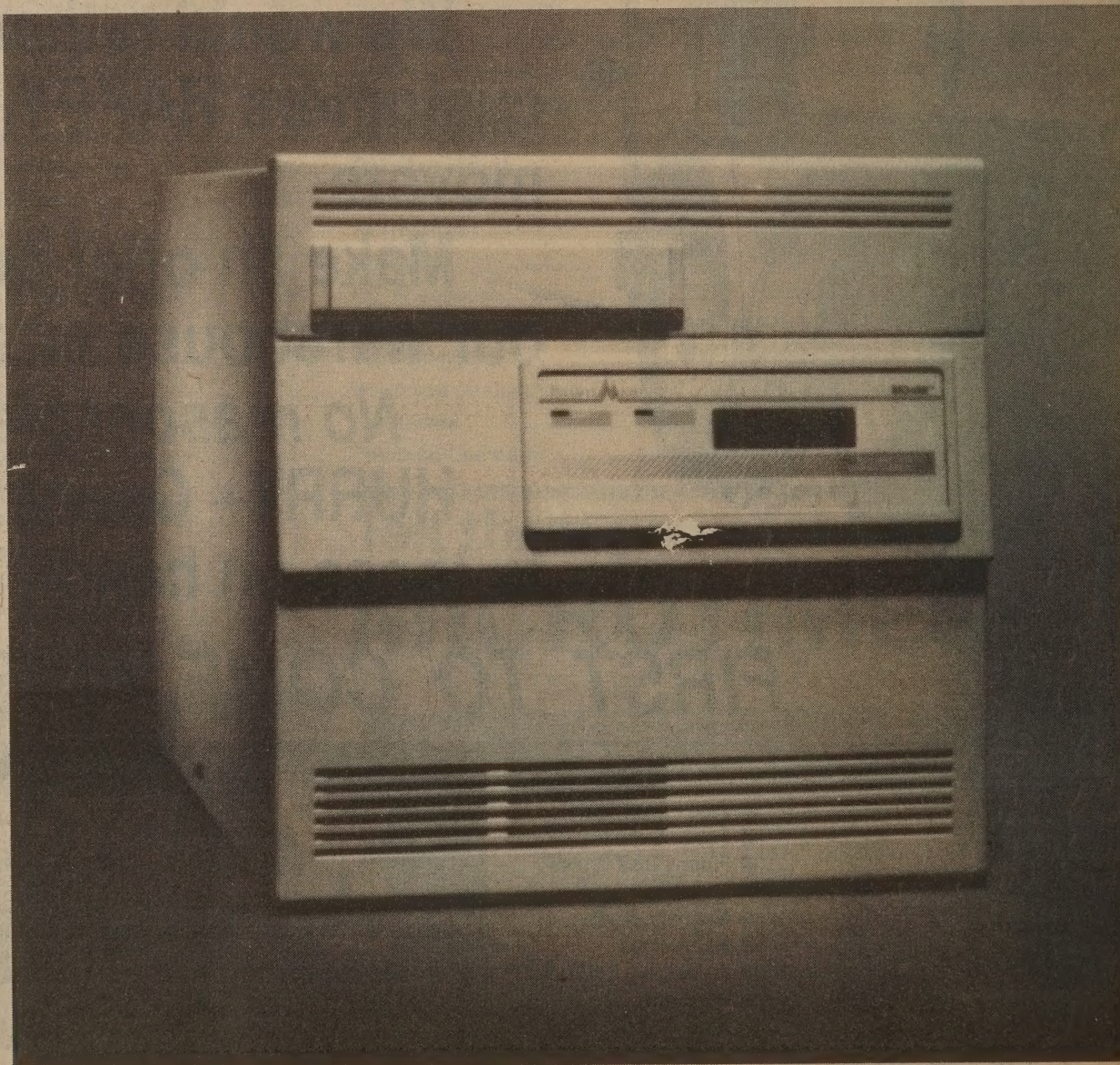
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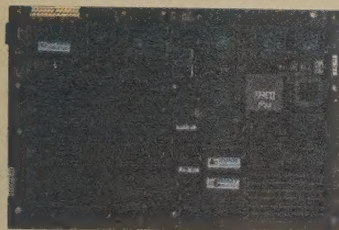




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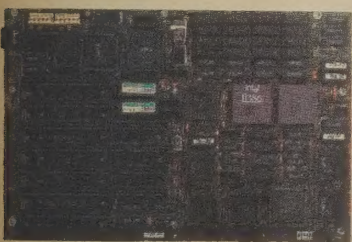
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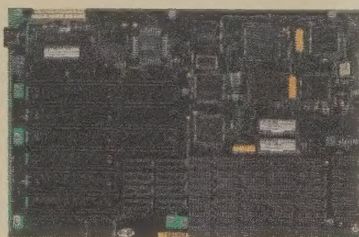
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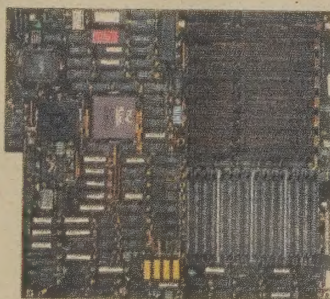
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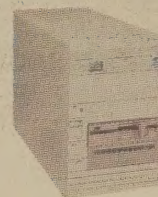


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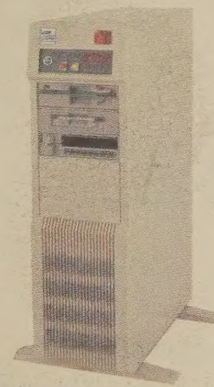
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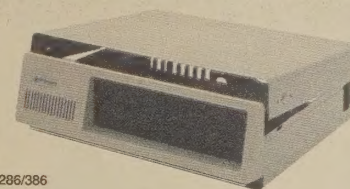
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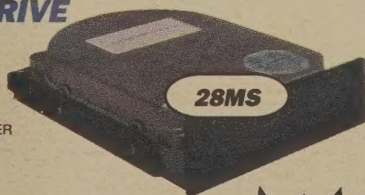
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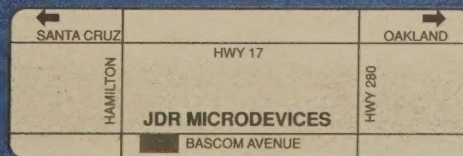
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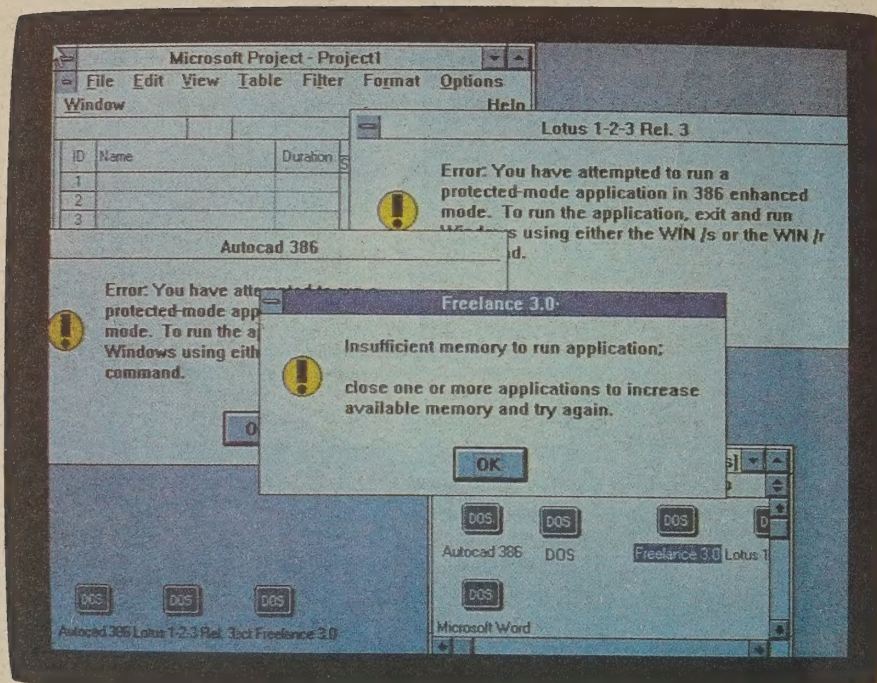
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# Is Windows 3.0 the end of DESQview<sup>TM</sup>?

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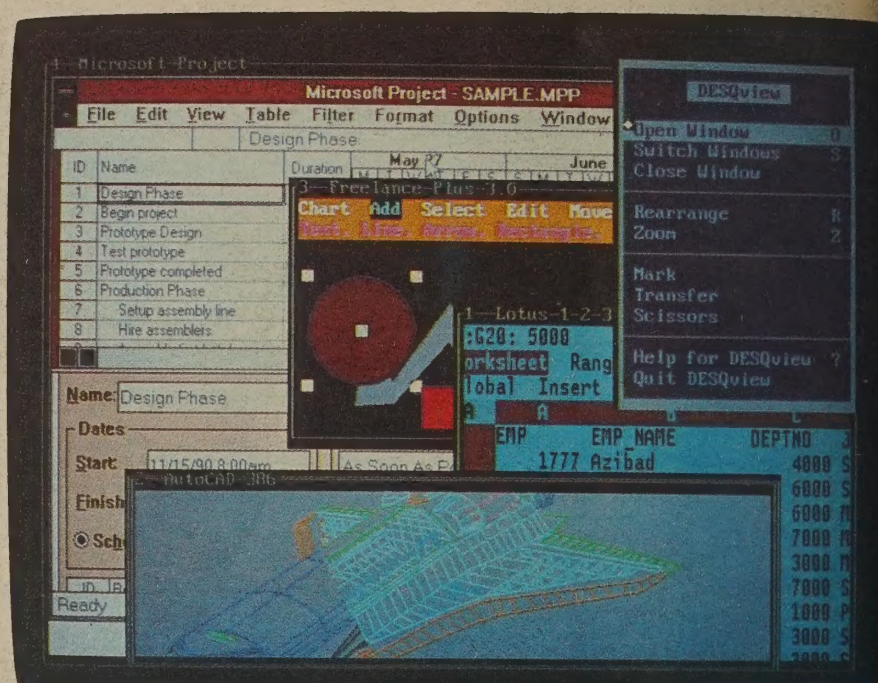


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# Quarterdeck

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This comparison was made using a system like the one you might run: Both shots show an ALR FlexCache 33/386 running DOS 3.3 with VGA display adaptor, Novell NetWare v3.01 Rev. A, with IPX/SPX v3.01 Rev A, Microsoft Mouse 7.00, and Microsoft SMARTDrive v3.03 disk cache. Buffers were set to 20. For the Windows screen, we ran Microsoft Windows 3 HMEM.SYS and EMM386.SYS. For the DESQview screen, we ran QEMM 386 v5.1.

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